

AT GUELPH

40th
Year

Volume 40 No. 1

University of Guelph, Guelph, Ontario

Jan. 10, 1996

AT A GLANCE

Welcome back. *At Guelph* welcomes U of G's students back for another semester. Have a great winter, everyone!

Call for proposals. Proposals are being accepted for the fourth annual Gordon Nixon Leadership Award, which makes \$10,000 available to student organizations to support initiatives related to leadership, involvement and service. The deadline for proposals is Feb. 16. Forms can be picked up at the Connection Desk, student government executive councils and Student Affairs.

On being learning-centred. Prof. Norman Gibbins offers his perspective on learner centredness at U of G on page 8. *At Guelph* welcomes commentary pieces from all members of the University community. For more information, call Ext. 3864.

A growing proposition. With a little help from its friends, the Arboretum is working to weather the storm of current fiscal restraint... page 3

Taking a cultural approach. The Centre for Cultural Studies officially opens Jan. 16 with the launch of its second annual colloquium... page 3

What does the future hold? Prof. John Leslie estimates there's a 70 per cent chance that humans will still be around after 500 years... page 5

Included with this issue of *At Guelph* is a supplement from the Macdonald Stewart Art Centre.

Thought for the week

If winter comes, can spring be far behind?

Percy Bysshe Shelley



A doggone good job. Machinist Tony Wagenaar, left, shows off the moveable dog skeleton known as "Otis" (here wrapped in removable felt) he made for OVC radiologist Prof. Howard Dobson to use as a demonstration model in classes. Otis is helping to cut down on the use of live animals in OVC. See stories on page 5. Photo - Kerith Waddington

OVC merger creates new pathobiology department

Senate endorsed the merger of two OVC departments Dec. 19. The departments of Pathology and Veterinary Microbiology and Immunology will become the Department of Pathobiology May 1.

The Department of Pathobiology will further the understanding of host resistance and basic disease mechanisms and apply this knowledge to enhance disease prevention and control. Pathology professor John Barta of the Senate Committee on University Planning (SCUP) told Senate that the department's new structure will encourage more co-operation in multidisciplinary research and the sharing of teaching assignments.

The merger is among four recommended in the University's strategic-planning document, *Making Change: The Strategic Plan of the University of Guelph*. The document also calls for realignments or closer association in the University School of Rural Planning and Development/School of Landscape Architecture/Department of Rural Extension Studies, Environmental Biology/Horticultural Science and Land Resource Science/Geography.

The Department of Pathobiology's disciplines and areas of activity will include anatomic pathology, avian medicine, zoo/wildlife medicine, bacteriology, clinical pathology, immunology, laboratory animal medicine, fish and aquatic animal medicine, parasitology and virology.

The department will continue to offer undergraduate programs, the graduate diploma, the M.Sc. with thesis, the D.V.Sc. and the Ph.D. It will also continue research consistent with the goals of the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and will share space and equipment with OMAFRA in teaching and diagnostic programs.

Current undergraduate teaching and learning committees and graduate studies and research committees will draft a unified set of guidelines for each of their areas of responsibility for the combined department. This is pertinent for the graduate committee because both departments are preparing for an Ontario Council on Graduate Studies (OCGS) review this year.

The Department of Pathobiology will have 27 tenured faculty positions, an administrative assistant, a secretary to the chair and 4.5 secretarial/clerk positions.

The merger represents several administrative savings, says SCUP's report to Senate. Fewer faculty will be required for college committees; there will be a larger pool of faculty for various assignments; and only one department secretary, one administrative assistant and one chair will be needed.

The new unit will not require a physical move. Under the merger, VMI chair Carlton Gyles and Pathology chair Dean Percy will resign May 1, and

Human Rights & Equity Office official opening set for Jan. 23

The Human Rights and Equity Office has found a home in Fielding House. And everyone in the University community is invited to drop by at an open house Jan. 23 from 1:30 to 4:30 p.m., when the official opening will take place. Rosemary Brown, chief commissioner to the Ontario Human Rights Commission, will speak at 5:30 p.m. in Room 209 of the HAFA Building.

Located on University Avenue, the Human Rights and Equity Office represents the physical consolidation of the Sexual and Gender Harassment Office, the Employment and Educational Equity Office and the Human Rights Office. Guided by the spirit of the Ontario Human Rights Code, the office is service-oriented, says director Ralph Agard.

Agard and human rights consultants Madie Férère and Jodie McConnell, along with faculty associate Prof. Joseph Tindale, Family Studies, will hear and deal with complaints, raise awareness through educa-

tion and training, guide policy development and work with existing University committees to ensure that issues of human rights and equity are not overlooked.

The open house will be a celebration of the commitment made by the University to promote and protect human rights and equity for all members of the community, says Agard.

"The office is here to secure the basic rights of all people, which, localized to a campus situation, include the opportunity to study, work and reside in a safe environment free from discrimination and harassment and with equality of access," he says. "I believe the establishment of an umbrella organization like this office is a large step in that direction."

The office is the result of administrative restructuring recommendations made over the last 10 years by University initiatives

See *STUDENT* on page 4

See *REALIGNMENTS* on page 4

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LETTERS

Home economics was among first to adopt human ecological perspective

In response to previous letters to the editor and on being pompous and uninformed, may I add further insights on the issue of human ecology.

One of the earliest fields to adopt a human ecological perspective was home economics. See Robert Clarke's biography of Ellen Swallow, the first woman to be admitted to — and to receive a degree from — the Massachusetts Institute of Technology. She was primarily responsible for founding the field of home oecology, which was officially named "home economics" in 1908. The early founders were constrained by the biologists and not permitted to label the field "ecology."

Today, however, a number of university home economics programs have been renamed "human ecology" because of their ecological perspective and growing concern for human/environment interactions. There are faculties of human ecology at the University of Manitoba, Michigan State University and Cornell University, to name a few, as well as departments of human ecology at the University of Alberta and Mount Saint Vincent University. Human ecology has had a di-

verse history in the social sciences, which grew out of "ecology" in the natural sciences. See Bubolz and Sontag in the *Journal of Consumer Studies and Home Economics*, Vol. 12 (1988), for a review of some of the historical traditions and perspectives.

I, too, describe myself as an ecologist, attempting to address resource use within the context of family and community and in a global context.

Lila Engberg, Retired
Department of Family Studies

Costs of athletics clarified

I am writing in reply to the article in *At Guelph* Dec. 6 on the "University Community Response to Budget Solution Ideas." As chair of the Athletics Advisory Committee, I believe it is important to clarify the misconception that the University pays for varsity athletics.

The athletics budget is made up of three components:

- student athletics fees — 52 per cent;
- other revenues (fees, rentals, gate receipts) — 25 per cent; and
- a University contribution of 23 per cent.

The University contribution covers part of the cost of operating the athletic facilities, a principle guaranteed through a letter of agreement with the Central Student Association, Graduate Students' Association, the Athletics Advisory Committee and the

president. The student part of this agreement is the facility fee of \$22 a semester, which is used to pay off the mortgage on the athletic facilities.

All program costs — varsity and intramural — are covered by the athletics fee and the revenues generated by department programs.

Laurie Halfpenny,
Acting Chair
Athletics Advisory Committee

At Guelph welcomes letters to the editor from members of the University community. They must include the full name, signature and telephone number of the correspondent. *At Guelph* reserves the right to reject any letter for publication and to edit letters for content and length.

Student nominees sought for Board of Governors

Board of Governors is calling for nominations to elect one graduate student and two undergraduates to the board for a one-year term that runs from July 1, 1996, to June 30, 1997.

All full- and part-time students are eligible, provided they continue to be registered for at least two of the three semesters of the term of office.

Nominations must be submitted to the Board Secretariat Office on Level 4 of the University Centre by Jan. 19 at 4 p.m. Election of the

undergraduate students will be held in conjunction with Central Student Association (CSA) elections Feb. 12 to 16.

The graduate student will be elected by mail ballot. Ballots will be mailed Feb. 12 and must be returned by Feb. 23 at 4 p.m.

Nomination forms and information are available from the Board Secretariat Office, Ext. 6571, college deans, the CSA and the Graduate Students' Association. □

PUBLICATIONS

Early Origins of the Social Sciences by Prof. Lynn McDonald, Sociology and Anthropology, was republished as a paperback by McGill-Queen's University Press.

Prof. Jack Trevors, Environmental Biology, is co-editor with J.D. van Elsas of the Netherlands of the text *Nucleic Acids in the Environment*, published by Springer-Verlag, Germany.

"Chemiluminescent Detection of Caprine Arthritis-Encephalitis Virus with A Per-Generated Single-Stranded Nonradiolabelled Probe," an article by graduate student Alfonso Clavijo and Prof. Jan Thorsen, Veterinary Microbiology and Immunology, appeared in *Veterinary Microbiology* 43. Clavijo and Thorsen are also authors of "Bacterial Expression of the Caprine Arthritis-Encephalitis Virus Gag and Env Proteins and Their Use in Enzyme-

Linked Immunosorbent Assay," published in the *American Journal of Veterinary Research* 56, and "Serologic Diagnosis of Caprine Arthritis-Encephalitis by Elisa with Two Recombinant Proteins in a Parallel Testing Format," which appeared in *Journal of Immunology* 16.

Retired sociology and anthropology professor Richard Carlton is author of "The Public Marketing of Music," which appeared in the *International Review of the Aesthetics and Sociology of Music* 26.

VMI graduate student P. Seshi Reddy and Profs. Eva Nagy and Brian Derbyshire are authors of Sequence Analysis of Putative PviII, E3 and Fibre Regions of Porcine Adenovirus Type 3, which appeared in *Virus Research* 36. They are also authors with postdoctoral fellow Tamas Tuboly of "Restriction Endonuclease Analysis and Physical Mapping of the Genome of Porcine Adenovirus Type 5," in *Virus Research* 37, "Molecular Cloning and Physical Mapping of Porcine Adenovirus Types 1 and 2" in *Archives of Virology* 140 and, with technician John Dennis, "Comparison of the Inverted Terminal Repetition Sequences from Five Porcine Adenovirus Serotypes" in *Virology* 212.

Derbyshire is author with VMI graduate student Lorne Jordan and Prof. Bonnie Mallard of "Interferon Induction in Swine Lymphocyte Antigen-Defined Miniature Pigs," an article in *Research in Veterinary Science* 58. Jordan and Derbyshire wrote "Antiviral Action of Interferon-Alpha Against Porcine Transmissible Gastroenteritis Virus," published in *Veterinary Microbiology* 45. Derbyshire is author with grad student Hane Weingartl of "Cellular Receptors for Transmissible Gastroenteritis Virus on Porcine Enterocytes," which appeared in *Corona and Related Viruses*. □

Farcus by David Westcott Gordon Gault

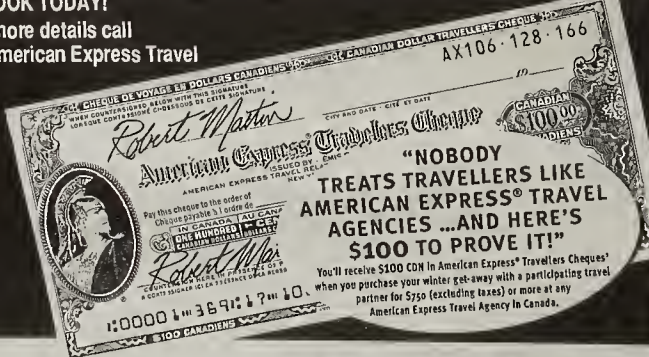


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Look at us now! Members of the Arboretum Auxiliary gather in the Japanese Garden to reflect on how much the Arboretum has grown since Board of Governors approved the master plan 25 years ago. In front row, from left, are Mary Ann Lapensee, Ann Smith, Janet Dalgleish, Bobbi Porter and Marian Mann. In back are Donna MacWilliam, Joy Dougan, Bonnie Smith, Annerose Schmidt, Dale Ellis and Arboretum director Alan Watson. The photos are of the original Arboretum site and master plan. Photo - Kerith Waddington

External support, volunteers keep Arboretum growing

by Kerith Waddington
University Communications

Twenty-five years old in 1995 and still going strong, the Arboretum is tackling declining financial support head on by doing its own external fund raising.

The facility is currently generating more than 45 per cent of its budget from outside sources through partnerships with government, businesses and individuals throughout the community, says Arboretum director Prof. Alan Watson. This means the Arboretum is well-situated to weather the storm of current fiscal restraint, he says.

Watson adds that the fund-raising efforts of the Arboretum Auxiliary established last year have gone way beyond expectations and are now an integral part of the Arboretum's drive for external funding.

"The auxiliary is the best birthday present the Arboretum ever had," he says. "By continuing to expand our funding base and build relationships with the community, the auxiliary will give us long-term stability."

More than 100 volunteers, including students and community members from various backgrounds, serve on a variety of auxiliary committees, each of which has its own service mandate.

Silver anniversary

Focusing this past year on celebrations surrounding the Arboretum's silver anniversary, the special events committee of the auxiliary held an open house and pancake breakfast in June and a gala dinner and auction in October that raised \$26,000 for the Arboretum's Endowment Fund.

The auxiliary's plant sale committee raised \$5,000 at the Arboretum's annual spring sale, and the fund-raising committee has taken on three of the facility's existing fund-raising initiatives

— the dedication of 25 silver maples lining Arboretum Road, Children's Forest tree friend sponsorships and increasing the number of annual donors through the Arboretum Friends program.

In addition to efforts by the auxiliary, the Arboretum keeps growing through partnerships with businesses (such as the Wall-Custance Funeral Home support of the Memorial Forest), government (such as the Ministry of Natural Resources' support for the Ontario Tree Atlas Project) and individuals (such as Phillip and Joan Gosling's founding and continuing support for the Gosling Wildlife Gardens).

Tree-dedication program

Watson says the Rotary Tree Grove — started in 1981 to celebrate the 60th anniversary of the Rotary Club of Guelph — is slated to be the next tree-dedication program, and the newly established Guelph-Wellington Hospice Lilac Garden will follow suit.

"The Arboretum tries to be diversified with its fund raising," he says. "In a very positive way, we are building partnerships that strengthen the emotional and financial commitments made by members of the community."

Nov. 27, 1995, marked the 25th anniversary of Board of Governors' approval of the Arboretum's master plan.

Watson lauds the vision that led to establishing a resource that now attracts 73,000 visitors a year.

With more than 3,200 kinds of woody plants, the most significant collection of genetic material from the northern portion of the Carolinian Forest and the best wildlife garden in Eastern Canada, the Arboretum supports a wide range of research, teaching and public education, he says.

"The dream of 1970 is coming to fruition. The Arboretum is dedicated to answering the needs

of both the University and the greater community and to continuing the generation of support that will enable further refinement of that vision." □

English professor co-ordinates women's studies program

by Barbara Chance
University Communications

Change is in the air in U of G's women's studies program.

The change comes in the form of a new co-ordinator, English professor Helen Hoy, who has her sights set on steering the women's studies program in a new direction — one that honors more fully the diversity of women's experience.

"We need to make sure the program's perspective is a broad one," says Hoy, who was director of graduate studies in the University of Minnesota's Centre for Advanced Feminist Studies and Women's Studies before joining Guelph's English Department last summer. "We must take into account experience that goes beyond the middle-class, white, heterosexual experience. We already have courses doing that, but I want it to be the central focus."

High on Hoy's agenda is revising the program's curriculum to make it stronger and more focused. She wants to determine which courses are most important and possibly introduce some new ones — a practicum and a course on feminist theory.

To support her in that task, she has established an executive subcommittee of the existing Women's Studies Committee, a group of 21 faculty and students who provide the co-ordinator with feedback and advice. The four recently elected members of the executive are Profs. Karen

Wendling, Philosophy, Ann Wilson, Drama, and Theresa Lee, Political Studies, and student Laura Miller.

Another priority for Hoy is getting more faculty across campus involved in the women's studies program. "I'm hoping there are a number of feminist faculty who haven't been involved before," she says.

Hoy also wants to make sure students have their say in how the program develops. To that end, she encouraged students majoring and minoring in women's studies to form an association and has met with them to discuss their concerns and to find out what direction they'd like to see the program move in.

Although coming from the University of Minnesota, where the women's studies program has scores of faculty and hundreds of students and is among the top five such programs in the United States, Hoy is not daunted by the much smaller size of Guelph's program. (Here, courses are taught by about 20 U of G faculty in 10 departments, and enrolment totals 44 majors and minors.)

"There's a real sense of administrative support for the women's studies program here," she says. "There's more work to be done, but the support is there."

There's also new support for interdisciplinary programs, which could prove a strong resource for programs like women's studies, she says.

A 1977 PhD graduate of the



Prof. Christine Bold

applications in the field and serve as a source of consultants on cultural issues for government and the media, she says.

The 1996 colloquium continues until Feb. 7 with a series of talks and round-table discussions. Topics include "Historicizing Prostitution and Disease" Jan. 17 at 3 p.m. at the University Club, "Family Matters: Neo-Conservatism and the Politics of Work and Family in Hamilton, Ont." Jan. 23 at 2 p.m. at the University Club, "What's in a Name?: Critical Misreadings, Conservative Values and Rereading Victim Art" Jan. 31 at 3:30 p.m. at the Macdonald Stewart Art Centre and "Situation de l'intellectuel aujourd'hui" Feb. 1 at 4 p.m. at the Inner Stage. (See the weekly "Calendar" for a complete listing of events.) □



Prof. Helen Hoy

University of Toronto, Hoy taught English at the University of Manitoba and U of T before joining the University of Lethbridge, where she was a founding member of the women's studies program. She moved to Minnesota in 1990 after 10 years at Lethbridge.

Over the past 15 years, Hoy has seen women's studies evolve into "one of the areas at the forefront of intellectual development. Questions are being asked from new angles, and one angle is to insert gender into the discussion. A feminist perspective transforms disciplines in a way that cannot be ignored."

Hoy hopes to raise the profile of women's studies on campus through guest speakers and various intellectual and social events. For more information about the program, call Hoy at Ext. 3260 or the office at Ext. 4344. □



Ralph Agard, director of the Human Rights and Equity Office, poses outside the office's new home in Fielding House.
Photo - Kerith Waddington, University Communications

Student forum Jan. 11

Continued from page 1

such as the 1994 President's Anti-Racism and Race Relations Report. The office and a current interim human rights policy will undergo further refinement with the establishment this month of a policy-development working group. This group will report to the president by March 15 and later to the Board of Governors and Senate, and will initiate changes that Agard is confident

will further promote and protect the equitable treatment of all members of the community.

Agard invites anyone with concerns about human rights and equity issues on campus or those wishing to become familiar with the activities of the office to drop by during the open house. On Jan. 11, he will hold an open student forum on human rights and equity from 5 to 7 p.m. in Room 103 of the University Centre. □

Realignments spawn academic initiatives

Continued from page 1

a search committee will be struck for a new chair of the Department of Pathobiology. SCUP has recommended that the search committee be expanded to include four faculty, two from each of the former departments, instead of the usual three.

OVC dean Alan Meek told Senate that the merger received the support of the college dean's council and that a faculty vote in both departments was overwhelmingly positive. Meek thanked the interdepartmental merger committee, chaired by Prof. Wayne Martin, Population Medicine, for investigating the merits of merging the departments. He also thanked the faculty, staff and students in the two departments for their willingness to consider the change.

Senate approved the merger without comment. President Mordechai Rozanski commended the faculty, staff and students who entered into discussions for doing so in such a collegial manner.

Provost Iain Campbell noted after the Senate meeting that this is the second merger in the past year (the first involved the Department of Nutritional Sciences and School of Human Biology), and he strongly encourages other units to explore realignment possibilities. He believes the most important benefit is the generation of new academic initiatives in teaching, research and involving external partners.

"These realignments will eventually define a renewed and distinctive university, unique in the Ontario system and able to take advantage of new opportunities," he says.

With a large number of small departments, too much faculty time is consumed by committee work, says Campbell. "Larger units free up valuable time for teaching and research."

Rustication policy

In other business, Senate approved a Board of Undergraduate Studies (BUGS) policy for granting credits to undergraduates who take courses while on rustication. Under this policy, students required to withdraw are eligible for up to two credits for courses taken while they are debarred, providing they meet the criteria for read-

mission and transfer of credit. The change comes into effect this spring.

Students who take courses after the two-semester rustication period will be eligible for transfer of these courses, provided they meet the two criteria. Students required to withdraw because of academic misconduct cannot receive any credit for courses taken during the debarment period.

GRPI pact extended

Senate received for information a BUGS report that U of G's agreement with McMaster University and the Grand River Polytechnical Institution (GRPI) has been extended for five years.

Signed three years ago, the partnership serves more fully the postsecondary education programs and services for the aboriginal community in Ontario. A Native Universities Access Program was developed, and some 30 students have participated each year in the GRPI courses. Only a few of these students have transferred to Guelph. BUGS says it's hoped that more GRPI students will be attracted to Guelph in the years to come.

More good grad news

Prof. Alun Joseph, Geography, chair of the Board of Graduate Studies, informed Senate that OCGS has appraised three Guelph graduate programs — the MA in philosophy, the joint PhD in philosophy with McMaster and the M.Sc./PhD in environmental biology. These were approved to continue and were classified as "good quality" based on the University's written submission and without the use of consultants.

Funding update

The president provided Senate with an update on provincial

funding news. Although Guelph has a good idea of the general size of the cut (about 16 per cent), it is awaiting detailed information about the cut and about guidelines on tuition fees and visa fees, Rozanski said.

Progress is being made on contingency planning, said the president, who expressed appreciation to deans, chairs, directors, managers and the University community.

He also noted that although universities haven't heard about cuts for the 1997/98 fiscal year, they should be cautious about the future.

Gyles, Guelph's representative to the Council of Ontario Universities (COU), gave a background on recent COU discussions with John Snobelen, minister of education and training, and deputy minister Richard Dicerni.

COU and Ontario universities await more information on the discussion paper on the future of postsecondary education in Ontario. According to the Ministry of Education and Training (MET), the topics will include student and government shares of the cost of postsecondary funding, differentiation of fees for professional and graduate programs, accessibility, program rationalization and co-operation between colleges and universities.

A short paper in January will outline the issues, the terms of reference and the process. A three-person commission will consult with stakeholders, including COU, student governments and faculty associations. The committee will submit its findings to the minister, who will use this information as the basis of MET's policy position. This consultation is expected to take four to six months, Gyles said. □

Grads receive Fulbrights

Two U of G graduates — Yona Lunskey and Allan Mussell — have received awards in the 1995/96 Canada-U.S. Fulbright program.

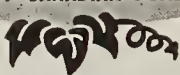
Lunskey, a 1994 BA graduate in psychology and drama and recipient of the Winegard Medal, is a doctoral candidate at Ohio State

University. Mussell, who graduated from the Department of Agricultural Economics with a B.Sc. in 1993 and an M.Sc. in 1995, is a doctoral candidate at the University of Minnesota. The awards are valued at \$15,000 each.

Lunskey, a President's Scholar, is the recipient of the Fulbright-Chrysler Scholarship. The announcement cites her "vast record of volunteer work" to improve the lives of the mentally and developmentally impaired and her future plans to pioneer a mental health outpatient program for such cases. Her PhD research project in clinical psychology and developmental disabilities is entitled "Dual Diagnosis: Meeting the Mental Health Needs of Persons with Developmental Disabilities in the United States and Canada."

Mussell will be enrolled in Minnesota's department of agricultural and applied economics during the tenure of his Fulbright-Industry Canada Scholar Award. He was cited for his "commitment to the betterment of farming" and his aspiration to contribute to improved trade procedures between Canada and the United States. His research project is entitled "Technological Adjustment in Agriculture Under Trade Liberalization: The Case of the Dairy Industry." □

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Adding on. The back of the old Food Science Building was demolished at the end of 1995 to make way for the second addition to the Guelph Food Technology Centre (GFTC). Expected to be completed by the end of 1996, the addition will be an open pilot plant where the GFTC does contract work for the food industry. The \$6.05-million facility is being funded by the centre, the Ontario government and the food industry.

Machine Shop open for business

by Kerith Waddington
University Communications

The Physics Machine Shop is open, and it wants your business.

Hidden away in the basement of the MacNaughton Building and known of by few, Machine Shop staff have been helping graduate students, staff and faculty across campus with their research equipment needs for years by building or modifying pieces to specifica-

tion. This involves construction of everything from centrifugal spinners to bug-counting trays.

The shop is of vital importance to maintaining teaching and research excellence at U of G, says OVC radiologist Prof. Howard Dobson, Clinical Studies.

"The quality of work at the Machine Shop is outstanding and has saved me a great deal of frustration whenever equipment was needed or had broken down,"

says Dobson. "I have used the services of the shop for several years and am now able to do more things in terms of teaching and research than ever before. Success with servicing from outside companies has never been as high as when I've dealt with the Machine Shop."

One example of the specialized service provided by the shop is the creation of a moveable dog skeleton that can be used for demonstration purposes in radiology classes, which cuts down on the number of live animals used. Commissioned by Dobson a year ago and built by machinist Tony Wagenaar, "Otis" comes complete with a bronze shim inside his spine and neck and rubber bands on the head and joints, which mimic a dog's range of motion (see accompanying story).

Also in OVC, Wagenaar has redesigned and made operable an X-ray machine for horses and made modifications to a power table used for operations. He says no day is ever the same when it comes to projects pending.

"The process of finding solutions is a never-ending challenge," he says. "It's satisfying to start with nothing but an idea, then finish with a product that works well."

Members of the University community with research equipment needs can contact Machine Shop supervisor Bill Morton at Ext. 2653.□

Is it live or is it Otis?

by Lisa Yue
Office of Research

Animals at OVC owe a debt of gratitude to a benefactor named Otis.

Otis isn't a person, but an artificial dog developed by Prof. Howard Dobson, Clinical Studies. It has halved the number of live animals used in X-ray lessons at the Veterinary Teaching Hospital, while providing veterinary students with more practice in the radiology labs.

Budding veterinarians need considerable X-ray experience, but exposing animals repeatedly to potentially harmful radiation — plus sedating them to make them docile enough to be X-rayed — can compromise the animals' quality of life.

"Third- and fourth-year veterinary students need to be able to correctly position an animal for X-ray to make an accurate diagnosis," says Dobson. "Most often, that requires sedating our teaching animals or, in some cases, administering a general anesthetic. I saw the need for an alternative teaching method."

Dobson had been considering using a synthetic model in the X-ray labs for several years. He started working on a prototype in the summer of 1995 with second-year veterinary student Kathy Keil, using a dog's skeleton as the starting point.

They enlisted the help of Tony Wagenaar of the Physics Department's Machine Shop to connect the bones together using neoprene rubber strips for the ligaments and rubber bands for the muscles to make the model bend realistically. Wagenaar designed

and inserted a bronze strip into the skeleton's spine to allow it to move as a live dog's would. Everything was then attached together with screws and washers, using anatomically accurate positioning.

The life-sized puppet-like canine comes complete with silicone organs, floppy ears, a lolling tongue and a synthetic golden brown coat to heighten the realism. The researchers named their creation Otis from the Greek "osteon" or bone—a reference to its skeletal origins.

"The most important part of the exercise was to create as accurate a canine model as we could, with a similar range of motion," says Dobson. "Using Otis had to be as close to X-raying a real dog as possible."

It worked. Otis is translating into far fewer dogs being exposed to the radiation of X-rays or the trauma of anesthetic. In fact, although the model has only been used for one semester, Dobson estimates it has reduced the use of live animals by more than 50 per cent. Response has been extremely positive from veterinary students, who are more confident and experienced when they eventually work with a real animal, he says.

Dobson plans to publish papers about his invention in various veterinary journals and hopes to see his prototype used elsewhere.

"When word gets out, Otis may be replacing animals at other veterinary schools as well," he says.□

BOOKS

Philosopher ponders *The End of The World*

by Steve O'Neill
Office of Research

With the beginning of a new year, most people's thoughts turn to the future. A new book by a U of G philosopher is also concerned with the future—the possible lack of one for humans.

In *The End of the World: The Science and Ethics of Human Extinction*, Prof. John Leslie lists potential threats to human existence and discusses the possibility of what he calls "doom soon"—the extinction of the human race within the next few centuries. He estimates the possibility of doom soon at 30 per cent or higher.

"The book guesses that there's a 70 per cent chance humans will still be around after 500 years, after which the human race will probably be fairly safe," says Leslie. "Still, even a 30 per cent chance of doom soon can look pretty frightening. And the real chance of doom soon could quite easily be a lot higher, maybe even 90 per cent."

The reasons for such startling figures? Leslie cites environmental threats such as pollution, destruction of the ozone layer and the extinction of plant and animal species, as well as other dangers like nuclear war and disease. Other less apparent hazards are also explored, including an asteroid striking the Earth and scien-

tific processes like genetic engineering going awry.

Leslie says that by writing *The End of the World*, he wasn't trying to paint a hopeless picture. Rather, as a utilitarian philosopher, he tries to decide what's right or wrong by looking at possible courses of action, then multiplies the chances that such actions would succeed by the benefits that would be gained by them succeeding. So even if the chance of an action succeeding is small, if the benefits of its success would be great, there's an obligation to perform the action.

In keeping with this theory, Leslie says writing the book was the "right" thing to do.

What chance does his book have of actually playing a major part in preventing doomsday?

"The chance seems to me rather slim," he says. "But take a slim chance, multiply it by the huge amount of good that could be done by preventing doomsday and you can get a very great expected utility."

The End of the World will be published in April by Routledge, which has put the book at the head of its spring trade catalogue in both North America and Britain. Routledge will be publishing simultaneously a paperback edition of Leslie's 1989 book, *Universes*.□



Second-year B.Sc. student Cory Gendrom won the eighth software development contest sponsored by the CPES science liaison committee. Gendrom received a \$500 scholarship for an electronic mailing system he developed while a student at Northern Secondary School in Sturgeon Falls. Above, he accepts the prize from Prof. Jim Linders, Computing and Information Science (CIS). At left is Prof. Al Dyer, CIS, who initiated the contest. Photo - Kerith Waddington

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NOTICES

Duplication service changes

Library staff will no longer copy material from books or periodicals owned by U of G because of low use of the service and new staff deployment needs in light of future budget reductions. The service will continue for users with disabilities. Self-serve photocopying in the library is still available. If you have any questions, call Pat Hock at Ext. 6574.

Panel on policies

The U of G Faculty Association will host a panel group discussion for faculty and librarians on "Policies, Policies, Policies: How Do They Apply to You?" Jan. 25 from 2 to 4 p.m. in Room 103 of the University Centre. Admission is free, and light refreshments will be served.

Come to the cabaret

Enjoy an evening of Broadway, jazz and palm court music at a Valentine Cabaret Feb. 10 at the College Inn. The evening features the Guelph Cabaret Choir with special guests John McLelland and Phoenix Jazz. Doors open at 7:30 p.m.; showtime is 8 p.m. Tickets are \$25. Before the show, dinner is available at the inn for \$15. For ticket information, call Ext. 6580.

Sinfonia performs

The Guelph Chamber Music Society presents Sinfonia Mississauga with soloist Glyn Evans Jan. 14 at 3 p.m. at Westwood United Church. Tickets are \$15 general, \$12 for seniors and students, and are available at the UC box office and at the door.

The missing years

A few early editions of *At Guelph*, then known as the *News Bulletin*, are missing from the U of G Library's archival collection and the collection maintained in University Communications. They are: Vol. 1, No. 13; Vol. 2, Nos. 13, 32 and 34; and Vol. 3, Nos. 4 and 31. If you have these copies and would be willing to lend them for copying, call Ext. 3864.

On the prowl for owls

Adults and children are invited to attend a Night Stalker's Owl Prowl Jan. 26 or 27 at 7 p.m. at the nature centre. Learn about the behavior and adaptations of owls in the Guelph area. The workshop is indoors, with an outdoor walk to follow. Cost is \$9 general, \$4.50 for children, \$25 for a family of four. Registration and payment are required by Jan. 19.

The music plays on

The Department of Music offers a variety of musical ensembles open to members of the University and local communities. The U of G Concert Winds and U of G Choir hold rehearsals Wednesday evenings; the U of G Orchestra and U of G Jazz Ensemble meet Thursdays. Rehearsals begin this week. For more information, call the department at Ext. 3127.

Zoology seminar series

The Department of Zoology launches its winter seminar series Jan. 10 with D.V. Weseloh of the Canadian Wildlife Service discussing "Double-Crested Cormorants of the Great Lakes: Their History, Current Status and Poten-

tial Conflicts." The talk begins at 4 p.m. in Room 265A of the Axelrod Building.

Music in Arkell

The Arkell Schoolhouse Gallery presents a Saturday afternoon concert of music by Mozart, Bartok, Dvorak, Chopin and Granados Jan. 20 at 2 p.m. Tickets are \$7. For information or to reserve tickets, call 763-7528.

Centre needs volunteers

The Guelph Distress Centre needs telephone volunteers. There will be a 10-night training course on active listening, one night a week. Volunteers will be asked to work four four-hour shifts a month for a minimum of one year. The next training sessions start this month. If interested, call Sharon at 821-3761 from 9 a.m. to 5 p.m.

Gala wine auction

The Guelph Spring Festival is holding a gala wine auction and tasting Feb. 3 at 7 p.m. at the Cutten Club. It will feature tasting of wines from around the world, a silent auction of fine wines and wine accessories and a live auction of rare wines, ice wines and port. Tickets are \$75 and are available at 821-3210.

Lyrical fund raising

A lyrical fund-raising celebration for the Guelph Youth Music Centre is slated for Jan. 27 at 8 p.m. at War Memorial Hall. Cost is \$20 general, \$15 for students and seniors and \$10 for children 12 and under. Tickets are available at the Carden Street Music Shop or at the door.

Y offers winter courses

The YMCA-YWCA of Guelph is holding evening courses starting in January on "Communicating Assertively," "Men Making Changes," "Creating a Personal Journal" and "Discover Yourself." Cost is \$60 per course. Pre-registration is required. For more information or to register, call 824-5150.

OVMA to meet

The Ontario Veterinary Medical Association is holding its annual conference Feb. 1 to 3 at the Ottawa Congress Centre and Westin Hotel. For more information, call conference planner Karin Stevens at 905-875-0922.

Forum awards available

The 1996 Corporate-Higher Education Forum Awards Program is now open for nominations. Two cash prizes of \$5,000 are offered to promote and recognize excellence in furthering corporate/university co-operation in research. Nominations are due March 1. For details, call 514-876-1356.

A comedy tonight

Guelph Little Theatre presents *There Goes the Bride* by Ray Cooney Feb. 15 to 17 and Feb. 22 to 24 at 8 p.m. at War Memorial Hall. Tickets are \$11.50 and are available at the Bookshelf and the GLT box office, 176 Morris St., 821-0270.

Wellington Winds perform

Wellington Winds present "A Showcase of Solists" Feb. 11 at the Grandview Baptist Church in Kitchener and Feb. 18 at the Woodside Bible Chapel in Elmira. Concerts begin at 3 p.m. Cost is \$12 general, \$8 for students and seniors. For information, call 669-4409 (Elmira) or 579-3097 (Kitchener-Waterloo).

Royal reunion

Anyone who has attended John F. Ross CVI is invited to attend its 40th-anniversary "Royal Reunion" May 25. Plans are under way for an open house at the school during the day and a dance at the Royal Canadian Legion that evening. For information, call the reunion hotline at 837-1804.

JOBS

As of *At Guelph* deadline Jan. 5, the following opportunities were available to on-campus employees only:

Agricultural Assistant, Animal-Care Services, temporary full time from Feb. 1 to May 31. Salary: \$14.44 to \$16.13 an hour. Removal date: Jan. 10.

Assistant Internal Audit Manager, Internal Audit, one-year contract from Feb. 2 to Feb. 1/97. Salary: \$35,200 minimum, \$41,360 normal hiring limit, \$44,000 midpoint. Removal date: Jan. 12.

It is the University's policy to give prior consideration to on-campus

Tri-university colloquium

The English departments at Guelph, the University of Waterloo and Wilfrid Laurier will hold a colloquium on "Professing English in the '90s and Beyond" Jan. 26 beginning at 1 p.m. at Laurier's Paul Martin Centre. The afternoon will feature discussions of "What Makes an Effective Teacher" and "Reshaping the Undergraduate Curriculum." Transportation from Guelph is being arranged. For more information, call Betty King at Ext. 3882, e-mail bking@arts.uoguelph.ca.

Herpes support group

A support group for people living with herpes meets every other Monday at the Guelph Community Health Centre. Anyone who has been diagnosed with herpes is welcome to attend. For more information, call the University's Wellness Centre at Ext. 3327.

Bioethics Institute

Faculty wishing to attend the Live Sciences Bioethics Institute at Michigan State University in May must apply by March 1. For information, call Fred Gifford of Michigan State at 517-355-4490.

Farewell party

A reception in honor of Kath Beaven of the Centre for International Programs, who is retiring after 21 years with the University, is Jan. 18 from 6 to 8 p.m. at the University Club on Level 5 of the University Centre. Cost is \$10. RSVP by Jan. 11 to Isobel Lander, Ext. 6904.

Focus on Alzheimers

The Alzheimer Society of Guelph-Wellington presents a talk on "Ethics in Alzheimer Care" Jan. 16 at 7 p.m. at the Evergreen Seniors Centre, 683 Woolwich St. Guest speaker is Christine Harrison, acting director of bioethics at the Hospital for Sick Children. Admission is free.

80th birthday

An 80th birthday party for retired Clinical Studies staff member William Eastway will be held Jan. 20 from 1 to 5 p.m. at the Orange Hall on Waterloo Avenue. For more information, call 837-8035.

CLASSIFIEDS

FOR SALE

Jenn-Air range with venting duct, attachments and manuals; metal desk, 54 by 24 inches; small chandelier, 824-9927.

Round solid-pine pedestal table with four high-back chairs, light honey color, good condition, 836-0125 after 5 p.m.

Transportation Services has the following uncertified vehicle for surplus sale on a closed-bid basis: 1988 Dodge half-ton pickup, 3.9L V6, automatic, 80,986 kilometres. Submit bids to Paul Cook, Transportation Services, Vehicle Services Building, by Jan. 19 at 4:30 p.m.

Diversity and Teams in the Workplace, seventh edition, Plunkett, requirement for course "Managing People at Work," Lou Ann, Ext. 3956.

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FOR SALE

Honey from the University's apiaries, Campus Junction, University Centre.

Doctoral robe, black with black velvet stripes, for person up to 5'9", 821-2524.

FOR RENT

One-bedroom basement apartment, carpeted, microwave, non-smokers, abstainers, available Jan. 1, \$530 a month inclusive, 824-9354.

One-bedroom basement apartment, 10-minute drive from campus, \$500 a month inclusive, Cheryl, Ext. 3908 or 836-9989.

Fully furnished stone house in Eden Mills, four bedrooms, two sitting rooms, 2 1/2 baths, 10-minute drive to campus, close to hiking and skiing trails and Eramosa River, available August 1996 to July 1997 while on sabbatical, \$1,700 a month, Michael, Ext. 3247 or 856-1081.

FOR RENT

Basement apartment, parking, yard, laundry, York and Stevenson area, available Jan. 1, \$500 a month inclusive, first and last month's rent required, 856-9132.

Furnished one-bedroom apartment, private entrance, laundry, central air, parking for one car, suit single non-smoker, no pets, references required, \$565 a month inclusive, 763-2632.

Four rooms in shared house with grad student, three upper and one basement room available, parking, cable, laundry, dishwasher, on bus route, \$300 a month inclusive, leave message at 837-8897.

WANTED

Three- or four-bedroom house or townhouse to rent from January to August 1995 for visiting family of six from Belgium, Ext. 4936.

Classifieds is a free service available to staff, faculty, students and graduates of the University. Items must be submitted in writing by Wednesday at noon to *At Guelph* on Level 4 of the University Centre. For more information, call Ext. 6581.

Office of Research goes online

The Office of Research has jumped into cyberspace.

The office, which supports research by U of G faculty and students, has created its own home page on the World Wide Web. That means the growing number of computer users with Internet accounts can access information about the office at the touch of a button, says Wayne Marsh, direc-

tor of Research Services.

The new home page contains links that allow users to access information about the Office of Research, research policies, the federal granting councils, the Research Board and its committees, the new "Jetform" electronic form filler application, Ontario Ministry of Agriculture, Food and Rural Affairs projects and the lat-

est research news from GRIFF, the University's GOPHER site.

Recent additions to the home page include a "What's new?" link to the latest research announcements and a link to the new Students Producing Articles on Research Knowledge (SPARK) home page. Future plans include a link to allow users to obtain information about funding agencies using keyword searches.

The office is also exploring ways to direct research opportunities to faculty in a more targeted way, says Marsh. Information about the means used to achieve this will be made available as it develops.

By providing faculty-directed information on funding, the new home page will take the place of the printed *Research News* (Research magazine and other Office of Research publications intended for a broader audience will continue to be published.)

To access the Office of Research home page, go to U of G's WWW home page and click on the "Learning and Research" link or go directly to <http://www.uoguelph.ca/Research>.

CALENDAR

THURSDAY, Jan. 11

Open Student Forum - Ralph Agard, director of the Human Rights and Equity Office, presents a draft implementation plan on human rights initiatives at 5 p.m. in UC 103.

FRIDAY, Jan. 12

Molecular Biology/Genetics Seminar - Biologist Steven Stack of Colorado State University examines "What We Are Learning About Genetic Crossing Over from Meiotic Nuclei in Plants" at 11 a.m. in Axelrod 028.

TSS Faculty Forum - "Linking Teaching and Research" is the focus of Profs. Doug Larson, Botany, and Larry Milligan, vice-president (research), at noon in Day Hall 125.

TUESDAY, Jan. 16

Cultural Studies Lecture - "The Pox and the Prostitute: Gender, Sexuality and Disease in Art, Opera and Medicine" is the topic of Linda Hutcheon of the University of Toronto and Michael Hutcheon of Toronto Hospital at 4 p.m. in UC 103. A reception will follow at the University Club.

WEDNESDAY, Jan. 17

Third Age Learning - The lecture series for retired persons begins its 17th season with a morning series on "China - The Dragon Awakens." It begins at 10 a.m. with guest speaker president Mordechai Rozanski. An afternoon series on "The Play's the Thing" begins at 1:30 p.m. with retired English professor Percy Smith. The lectures are at the Arboretum Centre.

Sigma Xi Lecture - Prof. Anne Croy, Biomedical Sciences, discusses "A Mother and Her Fetus: Issues of Immunological Conflict or Partnership" at 3 p.m. in the UC 103.

Cultural Studies Round Table -

Retirements

The following U of G employees retired Jan. 1:

- Martin McAllister, Ponsonby Research Station;
- Nancy Sadek and Isabel Wilkie, U of G Library;
- Claude Guldner, Family Studies;
- Beulah Stahlbaum and Donald Willis, Housekeeping;
- Rosalind Gibson, Family Studies;
- Virginia Campbell, FACS Dean's Office;
- Elizabeth Williams, School of Engineering; and
- Clement Reeves, Department of Philosophy. □

"Historicizing Prostitution and Disease" is the focus at 3 p.m. in the University Club.

Zoology Seminar - "Oceans A-Weigh: Mass, Size and Growth Relations in Zooplankton" is the topic of Prof. John Roff at 4 p.m. in Axelrod 265A.

TUESDAY, Jan. 23

Cultural Studies Lecture - Prof. Belinda Leach, Sociology and Anthropology, considers "Family Matters: Neo-Conservatism and the Politics of Work and Family in Hamilton, Ont." at 2 p.m. in the University Club.

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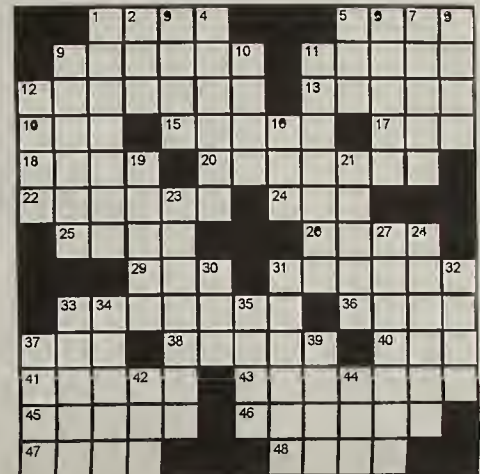
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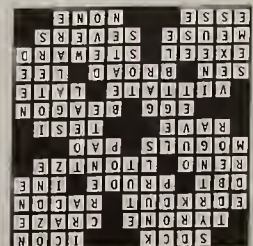


ACROSS 48. Not one

1. Foot covering
5. Sacred image of a saint
9. Actor Power
11. Short-lived fashion
12. Pay unwillingly
13. Its atomic number is 86
14. Kimono sash
15. Old maid
17. Chemical word ending
18. Rip
20. Treat as a celebrity
22. Powerful people
24. Writing tablet
25. Enthusiastic review
26. Word with pilot or tube
29. Nog ingredient
31. Signalling buoy
33. Corrupt
36. Overdue
37. Legislator: abbr.
38. Spacious
40. Sheltered side
41. Outdo
43. Hotel manager
45. North Sea tributary
46. Dissolves a relationship
47. Being: Latin

DOWN

1. Mock orange
2. Mark's planet
3. Poultry cage
4. Coin ridges
5. Lyricist
6. Spanish province
7. Fresh air
8. Hawaiian goose
9. "Not To Be" (Benny movie)
10. Small case
11. Scalloped
12. Document that requires information
16. Diamond holder
19. Down
21. Perfect model
23. Easy to read
27. Aquarium fish
28. Carriers
30. Long-nosed fish
31. Worn by use
32. Want
33. Exasperates
34. Anvil
35. Flip a coin
37. Strewn with bearings, in Heraldry
39. Robotic rock band of the '70's
42. Compass dir.
44. Cyst



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COMMENTARY

Learner centredness: opportunity and necessity

by Prof. Norman Gibbins

The strategic plan is a provocative document. This is both inevitable and essential. The generation of reaction, the stimulation of creative response, and the display of that quintessential academic characteristic, healthy skepticism, are signs that the strategic plan is working its purpose.

In this new political ice age, in which personal insecurity and concern for the future of tertiary education loom large, the plan paints an image — albeit premier coup and in bold type — of the emerging version of the University of Guelph. That image must now be fashioned into an icon for the University's future.

There is no dictionary-style definition of learner centredness. The strategic plan suggested, and Senate accepted as a primary directive for the University's future, that "learner centredness is an approach to education that aims at developing in each student, as early as possible, a sense of responsibility for his or her own learning."

The components of learner centredness have been identified as self-reliant learning, skill development, experiential learning and the research/teaching link. But the notion of scholarship, the defining attribute of a university, to which all its energies and abilities must be addressed, is conspicuously and inexplicably absent from the description. This omission must therefore be redressed in the expansion of learner centredness and research intensiveness, both of which must explicitly be directed towards furthering scholarship and lifelong learning.

The concept of learner centredness has evolved as a contemporary counter to the traditional "teacher-centred" and frequently authoritative approach to education. This latter approach, while having utility, particularly in the early years of education as self-discipline develops, becomes less relevant in the late secondary and tertiary stages of the system.

Authority has always been, for good and ill, a significant element in education. The ultimate authority of truth is the life force of a university. Unfortunately, teachers, as the purveyors of this truth, are still perceived by many students — particularly in the early years of baccalaureate programs — as the personification of this authority. To the extent that this authority is consciously retained by the teacher as a personal attribute, it will predetermine the academic direction, attitudes and options made available to the student in a course.

Depending on the teacher, this retention of authority can potentially either enhance or, more usually, constrain the development of the student's intellectual independence in the discipline concerned. On the other hand, the student's recognition that the authority of the truth is, in fact, universally accessible, without the imprimatur of the teacher, is the fundamental liberating and enlightening event in the life of any putative scholar. Learner centredness could well be defined in terms of this realization.

Learner centredness has long been a major element in many courses and programs — undergraduate and graduate — at this university. In fact, the current focus on and commitment to learner centredness are made possible largely by the existing opportunity for both its enhancement and its expansion into those program areas where it is not yet prevalent.

In many respects, learner centredness is a composite expression of the University's learning objectives. There are, however, elements of learner centredness that are not explicit in those objectives.

Learner centredness is predicated on respect for the student as an academic colleague. Ideally, mutuality in the learning process requires that the teacher/instructor

tor/facilitator know something of the students, their experiences and their potential to contribute to the learning process, and that the students know something of the teacher. (Large classes militate against this, of course, and the argument for small-group experience, resources permitting, is correspondingly strengthened.)

The student voice must be elicited and heard, and the facilitator must willingly be informed by the voice and encourage its active participation in the mutual learning process. The voice can be heard — and the intellect and creativity displayed — in many ways. Seminars, essays, group discussions, artistic performance, substantive access to faculty, opportunities for the student to contribute to the core fabric of a course, student evaluation of the progress and utility of courses and programs, participation in the University's academic processes, and a wide variety of other curricular and extracurricular activities are all candidates of this voice.

Mutuality in the learning process can be made visible by the "division of labor" in the course, thus emphasizing a complementary approach by the instructor and student in a common and shared experience in the discipline. The basic ideas, concepts and directions, i.e., an initial context, can be provided by the instructor. The responsibility for collecting necessary information pertaining to those ideas (through reading programs, the library, databases and other sources, with guidance from the teacher) can then be assumed by the stu-

dent centredness and its identified elements. They should reflect the overall educational goal of accountable independence in the student.

In a learner-centred examination, the intellectual initiative must be given, in large measure, to the student and not be retained by the examiner. The design and expectations of exams, tests, term papers and theses must emphasize intellectual quality and scholarship, rather than the views of the instructor/adviser or the reflections of a good memory.

In a learner-centred course, even the exams should be fully participatory and valuable learning experiences. Multiple-choice, true/false and "fill-in-the-blanks" exams do not provide the student with intellectual initiative. And although a well-designed multiple-choice exam can, to a degree, discriminate understanding from informed guesswork, these approaches to evaluation, in isolation, are decidedly not consistent with the learner-centred approach, nor are they consistent with the University's definition of an "A" grade. But the practicalities of the timely grading of a thousand exams and the lack of resources to provide for the individual marking of written exams in a large introductory course force some compromise on this issue.

It is also important that, whatever mode of evaluation is used, the anti-intellectual view that the final grade is the focus and objective of the course be effectively countered.

"Learner centredness is predicated on respect for the student as an academic colleague."

dent, obviating the need to use valuable class time for simple information transfer.

The synthesis of — and subsequent commentary on — those ideas and concepts can then be developed jointly. As this occurs, the instructor can encourage argument, discussion and the development of sound rhetoric (both oral and written) and, where possible, provide an opportunity for the student to adopt the role of teacher. Student groups such as the "cluster groups" so conspicuously successful in first-year programs are an extraordinarily valuable and supportive adjunct to this learning process.

Although the conditions of the intellect that we know as learning and scholarship are highly individual in character, acquisition of the information frequently is not. And the synergy that leads to expansion of the discipline depends on joint and mutual analysis and criticism. The successful student will have come to understand this.

The emphasis on detail that characterizes many courses and their constituent lectures would therefore have to be relaxed so that the broader — and ultimately more important — objectives of the educational process can be achieved. Pedagogical skill and imagination will be required, however, to ensure that the balance between the need for depth and scholarship in a discipline and the need for breadth, connectedness and individuality is maintained.

It is thus fundamentally important to the full achievement of learner centredness that it be recognized as a developmental process, to be implemented as a program objective and not simply as an element of a particular course. In this respect, the autonomy of the individual course, particularly in the early baccalaureate years, must be replaced by the autonomy of the program. And the corresponding centrality of the program committees as academic and pedagogical entities, rather than as simply administrative bodies, must be reinforced.

Evaluation and grading processes will have to reflect the commitment to learner

A significant element of the methodology of learner centredness identified in the strategic plan is the provision of "time for reflection, creativity and the pursuit of excellence" for students. ("Scholarship" might have been a better choice than "excellence" here.) This presumes, however, that the time made available will, in fact, be used constructively in such pursuits. Independent study does not mean undisciplined or unaccountable study. The monitoring of independent study in the learner-centred program will become a more demanding feature of the academic life of the faculty member. The supposition that independent study, as a major element of the learner-centredness concept, will mean that the student will be intellectually marooned and left to fend for him/herself, is thus erroneous. (So also is the converse assumption that the enhancement of learner centredness will necessarily result in more discretionary time for faculty.)

A significant contribution to the quality of programs will be made if the learner-centred enhancement leads to more effective intellectual contact between the faculty member and student than is generally possible at present.

It is perceived, particularly by students, that the narrowing of course and specialization choices needed to accommodate both the ever-tightening budget and the loss of faculty through the special early retirement plan will inevitably result in the impoverishment of the undergraduate experience. This may become true in the quantitative sense; it must not become true in the qualitative sense.

It may appear paradoxical, but the best hope for alleviating some of the University's resource problems, for making faculty time and effort available to enhance learner centredness, and for maintaining the overall quality of undergraduate programs lies in significantly reducing the number of courses and specializations. As Guelph has one of the most diverse ranges

of undergraduate options in Ontario, such reductions should be possible without undue prejudice to the attractiveness of the University's program choices to potential students. Fewer options of higher quality will have to be the order of the day. Quality provides its own attraction, and the student of the future, faced with higher tuition fees, will be even more insistent on quality than at present — and rightly so.

Underscoring all this, the academic freedom of all learners, be they undergraduates, graduate students or faculty, must continue to be fully respected at all times. Students have the right to be academically idiosyncratic without the fear of arbitrary sanctions, as do faculty members. In fact, the University should be encouraging the fringe because this is where the real intellectual exploration occurs and advances are frequently made, rather than in the mainstream.

At the same time, students must be aware that learner centredness does not mean either student domination of the programs or student licence. Central to all academic endeavor — and particularly to the concept of academic freedom — are the twin concerns and requirements of intellectual accountability and mutual respect. Learner centredness, appropriately harnessed, will enhance both.

A strategic plan must reflect both idealism and reality. A university's vision must, in the first instance, always be of the ideal for all its ventures and aspirations. That is the prime responsibility of the university to society at large, particularly in an era when societal institutions, public and private, including universities, are consumed by undisguised, intimidating, not to say brutal, financial reality.

If, however, in the darkness of this reality, we lose sight of the ideal, the best of intellectual aspirations become dimmed and will eventually disappear. In such a gloom, the University must inevitably become second-rate or worse.

The nature and tenor of the strategic plan are intended to provide illumination of the ideal. They also attempt to build a matrix of reality within which academic opportunities in the University, although being necessarily reduced in number, can nonetheless continue to inspire the academic community to the highest level of achievement.

Whether the options delineated in the plan itself are the best available to achieve this objective is not really the point. They are the initial nuclei about which the academic programs of the future, and the new nature of the University, will now start to crystallize. But the ultimate form, color and quality of those crystals will reflect not so much the specific provisions of the strategic plan but the manner in which the community responds to them, embellishes and improves them, or eventually replaces them with better options.

Learner centredness is not a new concept. It has been a recognized pedagogical ideal for many years in the primary and secondary sectors of the educational system, and has been practised extensively at this and other universities. What is new is the University's proclaimed commitment to learner centredness. This can only be interpreted as a commitment to the provision of the most enlightened experience for the student community, and to the aspiration that the experience of scholarly teaching, the development of self-reliant learning and the emergence of scholarship will lead the student to intellectual fulfilment. For this is the way to the University's purpose.

Prof. Norman Gibbins is a faculty member in the Department of Microbiology and chair of the Board of Undergraduate Studies.

AT GUELPH

40th
Year

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Jan. 17, 1996

AT A GLANCE

CCS offers free seminars. Computing and Communications Services (CCS) is offering free seminars on information technology this semester for members of the University community. Topics include Windows 3.1, Windows '95, Quattro Pro 6.0 for Windows, WP6.1 for Windows, MS/Word, UNIX, SAS, SPSS, creating HTML pages for the Web and surfing the Web. Most seminars last about two hours and are held in Room 203 of CCS, just off Trent Lane. Registration starts Jan. 22. To register, call Ext. 3713 or visit CCS weekdays between 9 a.m. and 4 p.m. Full details on the seminars are available electronically on the CCS Web site and GRIFF and in hard copy at CCS.

In celebration of winter. The School of Landscape Architecture stages its ninth annual Winterfest design conference Jan. 24 to 26... *page 3*

Honored for life. China's Zhejiang Agricultural University has named geography professor K.C. Tan an adjunct professor for life... *page 4*

A Cinderella story. Time is running out for a tree that may hold the key to Africa's agricultural future... *page 5*

The commentary page. History professor Keith Cassidy offers his suggestions for a University human rights policy... *page 8*

Thought for the week

Few things are harder to put up with than the annoyance of a good example.

Mark Twain



It's a gift! Joanne Bullock, a graduate of the Department of Fine Art and an employee of the Macdonald Stewart Art Centre, shows off some of her own pieces now on sale in the centre's revamped gift shop. See story on page 7. Photo - Kerith Waddington, University Communications

United Way tops all records

by Kerith Waddington
University Communications

U of G's 1995 United Way fundraising campaign was the most successful yet.

Drawing to a close with a raffle Jan. 19, the campaign has already topped its goal of \$185,000, raising the most money ever. Twenty-two of 25 campus units achieved more than 80 per cent of their declared goals, and 11 of those surpassed their targets.

This translates into good news for the 42 agencies and programs that receive United Way support, including Youth Employment Counselling, Big Brothers and Big Sisters, and Emergency Food and Support. They depend on public support more than ever after a six-per-cent funding cut was announced by the province just as the campaign was kicking off.

Campaign co-chairs Cheryl Anderson, Human Biology and Nutritional Sciences, and Ward Illsley, Physical Resources, attribute this year's success to innovation.

"The emphasis in this year's campaign was on special events and having fun, and I think the University community appreciated and responded to that," says Anderson. "We want to thank those who donated their time and money and made this year so successful and exciting."

Head shaving, readings by Robert Munsch, a buskerfest, bake sales, silent auctions, a bike rally and garage sales were just some of the events that added to the excitement and monetary success of the campaign, says Illsley.

"The special events not only raised the needed funding for the United Way, but also increased awareness in a fun and meaningful way," he says. "I'm pleased that our goal was reached, and I extend my thanks to all faculty, staff, students and retirees who supported the 1995 United Way campaign and showed unfailing optimism and dedication."

The head-shaving contest — organized by students James McEwan and Gerald Latour — raised \$4,052 for the United Way. They received the Gabriel-Hubert

Bell Canada project aims to clean up northern diesel-contaminated sites

by Margaret Boyd
University Communications

Bell Canada's efforts to clean up northern diesel-contaminated sites are getting a helping hand from U of G researchers.

Over the next two years, Profs. Grant Edwards, Richard Zytner and Warren Stiver, Engineering, and Prof. Terry Gillespie, Land Resource Science, will be collaborating with Bell and a team of experts on two separate projects to determine the optimal bioremediation method for the sites. The research will be conducted by three M.Sc. students, Colleen Fitzgerald, Abigail Salb and Tim Brook, with the aid of analytical

technician Mary Leunissen.

The sites were originally contaminated by spillage and operational effects relating to Bell's provision of telephone service to remote northern communities, primarily First Nations communities.

Historically, remote telephone services had to be powered by diesel, but in recent years, power has been supplied by Ontario Hydro or community-based power systems. Because the diesel-powered generating stations are owned by the province of Ontario, funding for the cleanup is also being contributed by the Ministry of Economic Development and Trade.

This legacy of contaminated sites, however, requires a major clean-up effort. Bioremediation is expected to take several years to complete, and will involve both in situ and off-source site bioremediation activities at about 20 sites, primarily in Northern Ontario.

"Bell Canada is very pleased to be embarking on this partnership with the University of Guelph, and we look forward to ongoing collaboration," says Wendy Mortimer, an environmental scientist with Bell Canada and an adjunct professor at Guelph.

A project to measure air-surface exchanges of trace gases coming off the sites, using instrumentation that is now being developed, will be conducted by Fitzgerald, Edwards and Gillespie. Bell is providing \$80,000 over two years to develop the instrumentation, conduct baseline initial measurements on site and monitor the surface exchange of volatile organic compounds (VOCs) from the diesel-contaminated soil. The VOCs are primarily aliphatic hydrocar-

Fielding House to open

The Human Rights and Equity Office will hold an open house and official opening in its new quarters Jan. 23. The open house runs from 1:30 until 4:30 p.m., when the opening ceremony will take place. Everyone in the University com-

munity is invited to attend.

To mark the occasion, Rosemary Brown, chief commissioner to the Ontario Human Rights Commission, will speak at 5:30 p.m. in Room 209 of the HAFA Building. □

See BELL on page 3

See UW on page 2

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LETTERS

U of G must observe 'truth in advertising'

The University faces hard financial times, and the community knows that what counts is the bottom line. On the way to the bottom line, however, there are choices to be made that may involve the University's moral ideals as expressed, for example, in its mission statement. These ideals might be summarized through three quotes: "Its core value is the pursuit of truth," "It is animated by a spirit of free and open inquiry" and "It asserts the fundamental equality of all human beings."

The University always has the full legal power to do what it chooses to do, but is this sufficient in the case of a modern university ascribing to the moral certainties spelled out in a modern mission statement? Moreover, is its legal power alone sufficient to persuade its employees and public supporters of its moral rectitude? I believe the University has to be prepared to defend its decisions on both fronts. Only in this case can it claim to be observing "truth in advertising," that is, financial soundness coupled with a truthful mission statement.

Perhaps truth in advertising should begin with *At Guelph*. This was the title I wrote on a short letter that *At Guelph* pub-

lished in the Dec. 13 issue but that was altered in five places. After receiving a protest letter, *At Guelph* apologized for inadvertently omitting a vital numerical example and said the other four changes were made for journalistic and editorial reasons. Surely "the pursuit of truth" requires short letters to be printed exactly as or very close to the original?

The example I gave in that letter contrasted some of the University's financial decisions about pensions with the ideals in the mission statement. I chose this case because it occurred to me as a member of the University's Advisory Committee on Pensions and Benefits. Other members of the University community would quote different examples based

on their experiences.

In my letter, I implied that the University had not lived up to its moral ideals, but the wider issue is how to balance moral and financial matters. This is an important issue for those handling today's difficult decisions and therefore merits serious debate. I believe *At Guelph* should encourage "free and open inquiry" about it. And in doing so, perhaps we should remember that many philosophers have concluded that "morality is the basis of civilization."

Peter Egelstaff
University Professor Emeritus
Department of Physics

Thanks for good wishes

I would like to express my warmest gratitude to the many friends, colleagues, students, staff and members of Senate and the administration who have sent me messages of support and good wishes following my recent heart attack. Your kind thoughts have certainly helped Sylvia and me through a very difficult period.

At times like this, it is comforting to be reminded that, alongside the intellectual plane that characterizes most of our day-to-day

dealings with each other, there exists at Guelph a level of community feeling and support that works to meet our broader individual needs.

I am currently embarking on a program of cardiac rehabilitation and look forward to resuming my role on campus in the near future. Thanks again for your support and best wishes for the new year.

Prof. Michael Matthews
Department of Psychology

UW raffle set for Jan. 19

Continued from page 1

Award for making an outstanding contribution to the campaign. Human Resources received the President's Trophy for the highest participation rate in a unit and the highest per-capita donation.

University Affairs and Development, the College of Arts, the Office of Open Learning, CPES, Financial Services, Hospitality Services, Human Resources, Physical Resources, retirees, Security Services and Special Events all surpassed their targeted goals. Anderson says Physical Resources deserves special mention for attaining 141 per cent of its goal.

Grand prizes offered yet another incentive for the community to get involved, she says. Barbara Aldridge of the FACS dean's office was the winner of a night at the Metropolitan Hotel in

Toronto and \$400 spending money, which was donated by the President's Office and Frederick Travel. Prof. Neil MacKinnon, Sociology and Anthropology, received a night for two at the Long Lane Bed and Breakfast. B.Comm. student Danielle Coffey won two tickets to the College Royal Ball.

The Jan. 19 raffle is for dinner for two at the Aberfoyle Mill and a night for two at the Esperanza Bed and Breakfast in Puslinch. Tickets are available from members of the United Way Steering Committee.

Anderson says that although he campaign was a big success, no one should lose sight of where the toughest work goes on. "The people who run the agencies and programs that make ours a caring community deserve the real credit," she says. □

Judicial Committee update

Editor's note: This is the first in a series of reports of cases brought before the University Judicial Committee. Provided by judicial officer Kathleen Kwan, this column aims to inform the University community of the impact of the student rights and responsibilities document on the student environment at U of G.

Security Services brought charges against a student accused of removing property not the student's own, which involved the theft of a twin-pad arena sign. The committee accepted the student's guilty plea. The committee expressed concern with the amount of theft occurring on campus and reminded the student that intoxication at the time of the incident did not serve as a mitigating factor. The student was fined \$50 and placed on probation Level 1 for this and the next two semesters in which the student is registered.

Security Services charged a student with possession of illegal drugs, namely marijuana. The committee accepted the student's guilty plea. The committee expressed concern with the use of drugs in residence and commented on its disturbing and disrupting effect on student life. The student was fined \$150 and placed on probation Level 1 for this and the next two semesters in which the student is registered.

Security Services brought charges against two students accused of permitting use of a University telephone to convey an obscene message. The students pleaded guilty, but indicated they were not responsible for making the call, only for permitting the use of their residence telephone to convey the message. The committee accepted the students' pleas. In light of the unusual facts of the case presented at the hearing, the committee did not impose as high a monetary penalty as has been previously associated with this type of violation of student rights and responsibilities. The students were fined \$50, placed on probation Level 2 for this and the next two semesters in which they are registered, and required

to write a letter of apology to the victim, to be approved by the judicial officer.

Security Services brought charges against a student accused of unlawfully tampering with an emergency telephone. The student pleaded guilty and indicated that he had activated the emergency phone without cause on a dare, while he was intoxicated. The committee expressed concern that the inappropriate use of emergency phones is not only taxing on the system, but most important, it also jeopardizes the safety of the University community. The student was fined \$300, placed on probation Level 2 for this and the next two semesters in which the student is registered, and required to review the residence alcohol policy with the assistant director, residence life, in Student Housing Services.

Security Services charged a student with harassment, namely using the U of G telephone system to convey an obscene/objective message. The message was a movie clip and had been sent to someone not on the phone distribution list. The student pleaded not guilty, arguing that there was lack of intent present in the case. The committee found the student guilty and did not agree that intent was a necessary element for this case. The movie clip and accompanying comments that were sent were found to be both racist and discriminatory. The committee wanted a strong message to be sent to the University community that such behavior is not acceptable and that this clearly contravenes student rights and responsibilities and the sexual and gender harassment policy. The student was fined \$250, placed on probation Level 2 until graduation, is required to meet with a human rights consultant to discuss the sexual and gender harassment policy, and must write a letter of apology to the recipient of the message, with the content to be approved by the judicial officer. □

Obituaries


Patrick Lafferty, former administrative assistant to the dean of physical science, died Dec. 14 as the result of an automobile accident. He was 76. A tree will be planted in his memory in the Arboretum's Wall-Custance Memorial Forest Sept. 22 at 2:30 p.m.

Norman Fish, a 1942 graduate of OVC who was on faculty for 40 years, died Jan. 8 at Henderson Hospital in Hamilton. He is survived by his wife, Eva. A tree will be planted in his memory in the Wall-Custance Memorial Forest Sept. 22 at 2:30 p.m. □

GRAD NEWS

The final examination of **Katherine Soule Blaser**, a master's candidate in the division of family relations and human development in the Department of Family Studies, is Jan. 24 at 1 p.m. in the Marriage and Family Therapy Centre. Her thesis is "An Evaluation of Long-Term-Care Reform in Grey-Bruce." The adviser is Prof. Joseph Tindale. □

Farcus
By David Wainwright
Guelph, Ontario



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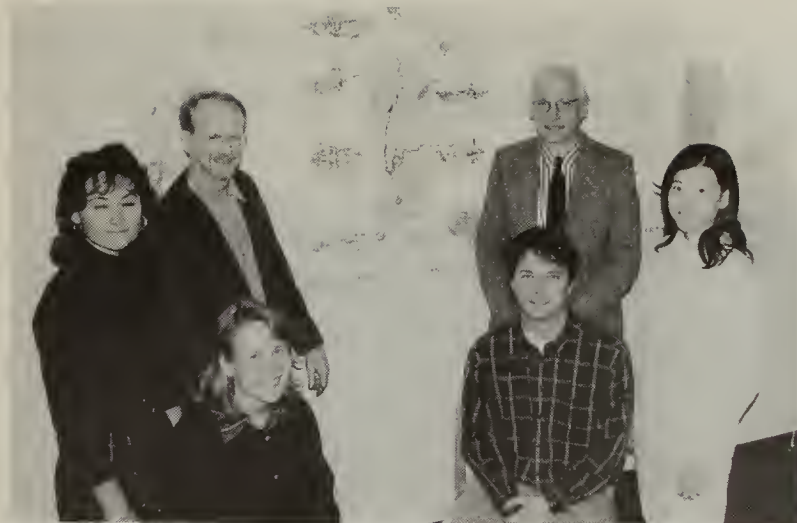
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Landscape architecture students gather in front of a display showing their economic, social and environmental vision for the Beaver Valley area. With them are Profs. Jim Taylor (standing, second from left) and Walter Kehm (standing, second from right), who taught the course. From left are Susan Young, Kerry Knowles (seated), Matt Ferguson (seated) and Xue Pei. Photo - Kerith Waddington, University Communications

MLA students assess Beaver Valley

by Kerith Waddington
University Communications

The Beaver Valley community could be reinforced through social, economic and environmental designs linking the natural environment to the local economy.

That's what students in the School of Landscape Architecture's "Environmental Planning and Design" course determined after studying a 200-square-kilometre area along the Niagara Escarpment between Collingwood and Owen Sound. As an exercise in design, students conducted a resource assessment of the area before coming up with suggestions for social, economic and environmental development geared towards sustainability. They plan to present their results to the Niagara Escarpment Commission and local interest groups.

Taught by Profs. Jim Taylor and Walter Kehm, the course is evolving alongside the growing concern with sustainable development and design, says Taylor.

"There is in rural development a growing movement to use community-based planning for land stewardship at the local level," he says. "This project is a prime example of how organizations like local interest and cultural groups can be a force for guiding positive development in their own community."

After studying the area through on-site visits and a Geographic Information Systems database, students suggested strengthening the sense of community among Beaver Valley residents by creating a common meeting area (such as a farmers' market) and promoting recreational and tourism activities that make use of the natural landscape. Ways this could be accomplished include linking the greenways that run through the valley, further developing the Bruce Trail, which follows the Niagara Escarpment, and promoting local ski resorts.

The team proposed enhancing the area economically by developing local ski resorts and clubs and by small-scale downtown intensification in the communities of Eugenia and Kimberly.

Preservation of agricultural lands, forests and greenways along the river was also suggested as a means of ensuring environmental sustainability.

The graduate students involved in the interdepartmental course, which also involves the University School of Rural Planning and Development (USRP&D), acknowledge that although time constraints prevented the class from seeking the input of Beaver Valley residents, the values of local community members are important and should form the hub

of similar planning projects.

"The rural landscape is undergoing a rapid transition, often to more industrial or organized recreational uses," says USRP&D student Matt Ferguson. "Early input from a community regarding the development of their own area is very important, and this project presents one potential scenario. There could be many more."

The diverse range of interests likely to be represented by an array of community groups developing a plan was simulated in the project by its cross-disciplinary nature, Taylor says. □

Winterfest '96 gears up

by Kerith Waddington
University Communications

Creating landscapes that are inviting and accessible is the focus of the School of Landscape Architecture's ninth annual Winterfest design conference.

Running Jan. 24 to 26, the student-based conference and celebration of winter centres on the design of new landscapes for clients who have approached the school for ideas and help. Students, faculty and professionals from throughout the community will cluster in groups to examine site-specific design issues and propose solutions. Interspersed with these discussions will be outdoor and social events such as a snow sculpture contest and chili dinner.

Traditionally enjoying an 80-per-cent participation rate across the school, the conference is a good example of the value of vertical integration, says Prof. Walter Kehm, who initiated the conference and serves as its director.

"Learning is sharing and growing together," he says, "and having third-year graduate and first-year undergraduate students working together with faculty offers a larger perspective to all. It is also the opportunity to share in the joy of a creative experience and do something for each other and the community as a whole."

The entrance to the Eaton Centre in downtown Guelph, Ferris Provincial Park in Campbellford and the Caledon Peace Ranch (a home for people suffering from

schizophrenia) are the sites targeted for redesign this year. The overriding goals are improving visual and social appeal at the Eaton Centre and physical and seasonal accessibility at the other two sites. The results of the clusters will be presented to clients at a closing wine-and-cheese reception.

Many landscape architecture students regard the conference as a highlight of the year, says third-year student Tanya Olsen, who is co-ordinating Winterfest 1996.

"The workshop is an empowering break from routine that gives students the chance to bounce ideas off peers and work together for a mutual goal," she says. "It is an exciting community effort from which many people will benefit."

The conference is also in keeping with the University's learning objectives, says Kehm. "As a student-driven activity, the workshops encourage participants to take responsibility for the direction of their own learning. It also increases much-needed interaction among students, faculty and the city of Guelph. Theoretical knowledge will be practically applied to local conditions from which the entire community benefits. For all these reasons, the conference facilitates the objective of learner centredness."

The snow sculpture competition will take place Jan. 24 in the afternoon in front of the School of Landscape Architecture. □

Colloquium focuses on youth

The College of Arts is hosting a colloquium on "Constructions of Youth" Jan. 27 in Room 114 of the MacKinnon Building. Plenary speaker is Barbara Hanawalt of the University of Minnesota, one of the leading social historians of medieval England, who will give a talk on "Narratives of a Nurturing Culture: Parents and Neighbors in Medieval England" at 2:30 p.m.

Hanawalt is a pioneer in the use of coroners' records to illuminate the everyday activities of medieval people. Her book *The Ties That Bound: Peasant Families in Medieval England* has had a major influence on the history of peasant life. She is also author of *Growing Up in Medieval London*,

a look at childhood and adolescence in the Middle Ages, and a number of articles on medieval women.

The colloquium will also feature four speakers from the College of Arts. Prof. Chandler Kirwin, Fine Art, examines "Bernini and Artemisia Gentileschi: The Spirit of Caesar and the Soul of a Woman" at 10:30 a.m. Profs. Mary Rubio, English, and Daniel Chouinard, French Studies, discuss "Children's Literature in Canada" at 11:15 a.m. Prof. Linda Mahood, History, looks at "Shaking off Their 'Lower-Class' Taint: Child Saving in Late 19th- and Early 20th-Century Scotland" at 12:15 p.m. □



Provost Iain Campbell, centre, holds a cheque presented by Bell Canada recently to support two engineering projects that will help in the cleanup of diesel-contaminated sites in Northern Ontario. With Campbell, from left, are Profs. Warren Stiver, Richard Zytner and Grant Edwards, School of Engineering, and Bell Canada scientist Wendy Mortimer. Photo - Margaret Boyd, University Communications

Bell funds research on site remediation

Continued from page 1

bons (i.e., C8 through C25), aromatic hydrocarbons and their metabolites. The instrumentation and methodology are unique, representing the first time that volatile products of bioremediation have been directly measured for this purpose.

"The central objective is to optimize the bioremediation by measuring the off gases," says Edwards. "The secondary objective is to determine if any gases are at toxic levels and pose any health risks."

The second project, which Stiver and Zytner are working on, will determine the length of time

required for the bioremediation and the factors that have influenced the process.

"Our goal is to predict when the sites are clean of contamination," says Zytner.

Bell is providing \$69,000 over two years to conduct laboratory simulations of the remediation technology and to project rates of degradation for the actual sites. Salb and Brook, who hold Natural Sciences and Engineering Research Council awards, will be involved in the project by developing and conducting lab simulations and visiting the sites. Leunissen will aid in the simulations.

"Students will take samples from the real sites to determine if the simulations are consistent with the operations in the field," says Stiver.

Because the sites are so isolated, low-tech bioremediation solutions may be more suitable, both environmentally and economically, than the proven effective high-tech solutions for the remote sites.

"We know the low-tech solution works in the crude sense, but we don't know if it will work reasonably fast, nor do we know the rate of degradation or vaporization," says Stiver. "Our research will find the answers." □



World At Guelph

Chinese university honors geography professor

by Kerith Waddington
University Communications

Prof. K.C. Tan, Geography, has been named adjunct professor for life by the College of Rural Enterprises at Zhejiang Agricultural University in China.

Receiving the appointment in recognition of 10 years of research in China, Tan now has a permanent base from which to conduct more detailed study into the development of small towns through rural industries. He will also help the year-old college — the first of its kind in China and established with the support of non-state funds from major rural enterprises in Zhejiang Province — bring rapidly developing rural industries into the modern age.

Identify new markets

This will be accomplished by finding sources of new technology for the rural industries, providing their employees with training and management, and identifying new markets and sources of supply. In so doing, Tan will help government efforts to divert people leaving the agricultural field because of high underemployment away from the larger cities, which lack the facilities and space to accommodate them.

With 74 per cent of China's population living in the countryside, the development and proper management of industrial enterprises outside the cities is of immediate importance in determining the future pattern of settlement and economic growth in the country, says Tan.

"Most rural enterprises are currently run by farmers, but as the level of technology and scale of



Prof. K.C. Tan has been named adjunct professor for life at China's Zhejiang University.

Photo - Kerith Waddington, University Communications

development increase, the need for more modern management methods and connection with the international arena also increases. Long-term development plans are necessary if small towns are to become self-sustaining and successful enterprises in their own right."

Central place theory is one development plan being looked at by Tan and other researchers seeking to use the link between the development of rural industry and small towns.

Incorporating the idea that each town should have a specific function or set of industries for which it is responsible, it would ensure a stable economic base and rate of development for each one.

This concept is gradually being implemented in some of the more

developed rural areas. Tan will continue to examine such issues during future visits to China.

The development of joint projects between U of G and Zhejiang has been the subject of an ongoing series of discussions since last May, when a delegation from Zhejiang visited campus. Tan expects the Department of Agricultural Economics and Business can also help by providing training programs for higher-level administration at the College of Rural Enterprises.

Tan will return to Zhejiang later this year to continue his research, but in the interim, he will confer with Canadian colleagues on the issue of rural development to generate ideas specific to China. □

No strong link found between consumption of beef, rainforest depletion

by Margaret Boyd
University Communications

The destruction of rainforests in South and Central America is primarily the result of indigenous government policies, not beef consumption in North America, a study by U of G agricultural economists shows.

"If there is a link between rainforest depletion and beef consumption in North America, it is an extremely flimsy one," says Prof. Glenn Fox, who conducted the study review with graduate student Samuel Bonti-Ankomah. "If someone has a desire to do something to protect the rainforest, there are better ways than cutting beef consumption."

More effective ways are contributing to the World Wildlife Fund's efforts to buy rainforest and create wilderness reserves, and writing to the Brazilian government or Canadian officials involved in trade development or technology transfer with Central and South America, he says.

Government subsidies in various forms are driving environmental degradation, even though they have no valid economic basis, says Fox.

Bonti-Ankomah's research found that landowners paid higher taxes if they kept the land undeveloped and were offered negative interest rates to develop their lands. "Government policies encourage individuals to use more land for pasture," he says. "In the early '80s, a lot of incentives were given to landowners to clear land."

The study was done at the request of the Canadian Cattle-men's Association after a member complained about a primary-school textbook that claimed beef consumption in Canada — especially at fast-food restaurants — was directly causing rainforest destruction.

The study looked at two time periods — 1970 to 1980 and 1980 to 1990 — and examined such factors as the scale of deforestation in four regions (Central America, South America, Brazil and Nicaragua), the size of farm related to deforestation, land-use changes, government policy and beef export trends.

The study found that only 2.6 per cent and 1.3 per cent of beef consumed in Canada and the United States respectively is imported from South and Central America.

Only one-quarter to one-half of the land cleared during this two-decade period went into animal agriculture. Other reasons for land clearance include subsistence production, which forces farmers to clear land and move on, inflation rates, population growth, foreign debt, a communal land-ownership system, fuel wood and charcoal production,

and inappropriate farming methods.

In general, a greater percentage of land owned by small farmers (less than 100 hectares) was deforested annually, compared with that of large farm owners (more than 1,000 hectares).

Statistics show that the percentage of forest cleared in South America from 1970 to 1980 was 0.37, rising to 1.06 between 1980 and 1990. In Brazil during the same period, it rose from 0.29 to 1.28 per cent. In Central America, the percentage of forest clearance increased from 1.14 to 1.30; in Nicaragua, it went from 1.79 to 2.22 per cent.

The rate of forest clearing in South America is not as high as in Central America, although the total forest land area cleared is greater in the south.

In 1970, beef imported from these regions accounted for 8.9 per cent of total beef imports and 1.4 per cent of total domestic consumption in Canada. In 1980, these ratios decreased to 5.1 per cent and 0.5 per cent respectively. In 1990, however, imports accounted for 10 per cent of total beef imports and 2.6 per cent of domestic consumption. This was primarily due to increased imports from Nicaragua after 1980. Nicaraguan imports accounted for about 88 per cent of beef imports from South and Central America to Canada in 1990.

In the 1990s, rainforest destruction appears to be decreasing, although statistics are not yet available, says Bonti-Ankomah. Subsidies are being reduced and criticism of government policies is increasing. In addition, global awareness of the value of rainforests is on the rise. Since the early 1990s, for example, the Costa Rican government has held agreements with pharmaceutical companies to refrain from rainforest destruction. □

CGIL takes courses to Eastern Europe

When the students can't come to you, go to them. That's the philosophy behind two courses taught last summer in the Czech Republic by Profs. John Gibson and Larry Schaeffer of the Centre for Genetic Improvement of Livestock (CGIL) in the Department of Animal and Poultry Science.

Over the past few years, CGIL has offered a series of summer modular courses on advanced topics in animal breeding that have attracted students and professionals from many countries to U of G, says Gibson.

"Each year, we get applications from students from Eastern European countries asking for financial support, who are unable to attend because of lack of funds," he says. "Not having any means of bringing such students to Guelph, we decided to take the courses to them."

CGIL struck an agreement with the Institute of Animal Science in Prague to host the courses and make all the local arrangements; CGIL supplied the

faculty and course materials. Gibson and Schaeffer's travel expenses were covered by the Association of Universities and Colleges of Canada.

The animal scientists each led an intensive two-week course on livestock genetic improvement. Schaeffer focused on linear models; Gibson covered the design and economics of animal-breeding strategies. The courses attracted 28 students from 14 countries.

Gibson describes this assignment as "the ultimate teaching experience. It was two weeks of intense interaction — teaching, talking, discussing and developing friendships. There is no more exhausting teaching format, but also no more satisfying."

He believes the students will benefit not only from the advanced training they received, but also from the friendships they made. "Many of these young people will become leaders in their field at home, and the contacts they made on these courses will help them develop collaboration in the future." □

Postcards

Prof. Nonita Yap, University School of Rural Planning and Development, presented two papers at the Canadian International Development Agency and the Shastri Indo-Canadian Institute Partnership Project Workshop last month in Kanpur, India. She also spoke this fall at the Second European Round Table on Cleaner Production and Cleaner Products in the Netherlands.

Prof. Bram Cadsby, Economics, was a visiting fellow at the Australian National University in 1995. While there, he presented three papers on experimental economics at 12 universities in Australia and four in New Zealand. □



Bryndis Bjarnadottir of Iceland, left, and HAFU graduate student Angie Lanning have switched locales to participate in an educational exchange between Guelph and Iceland.
Photo - Kerith Waddington, University Communications

Iceland exchange picks up steam

by Kerith Waddington
University Communications

The trade winds may blow west to east, but here at Guelph, ideas and cultural experiences are flowing north and south.

That's because the educational exchange established a year ago between U of G and four institutions in Iceland — the agricultural colleges of Holar and Hvanneyri, and the universities of Akureyri and Iceland — is picking up steam. Twenty-one people have participated in the exchange and/or summer field course to date, and interest has been expressed by many more.

The brainchild of psychology professor Steven Cronshaw (who is of Icelandic descent) and Holar professor Skuli Skulasson (a graduate of U of G), the exchange is interdisciplinary in nature and involves students, staff and faculty.

Cronshaw says it's rewarding to see the expansion of ideas that can follow participation in the project.

"Learning is a transformative experience, and I've seen lives

change and take different directions as a result of this educational and experiential opportunity," he says. "I know I have grown as well and have seen collaborative doors open that I didn't know existed. We have a lot to offer each other in a range of areas academically and culturally, and we are dedicated to ensuring an equal exchange in actuality as well as spirit."

Indicative of this determination is a student exchange in HAFU. Bryndis Bjarnadottir, catering manager at Holar since 1982, arrived on campus in August and is spending a sabbatical year on campus. Taking a variety of courses on subjects such as tourism, cultural aspects of food, beverage management and restaurant operations, Bjarnadottir is also working part time with Hospitality Services in the University Centre. While here, she hopes to improve her English and learn new methods of food preparation to better serve the community at Holar.

On the flip side, HAFU graduate student Angie Lanning left for Holar earlier this month to do her

thesis work on the interorganizational relations of Iceland's growing tourism industry. Sponsored in part by the agricultural college, she will help Holar develop an educational program in tourism and a tourist centre facility that will operate during the summer months.

Lanning says there were several reasons behind her decision to get involved in the Icelandic exchange beyond a three-week field course she went on last summer.

"Iceland is unique in the research opportunities it provides," she says. "It is not common to be able to study the development of an industry from infancy. I also find the rugged, volcanic landscape and the close-knit community appealing."

At Guelph, the colleges of Biological and Social Science, CPES, OVC, OAC and FACS have to date been involved in the exchange. Cronshaw expects the ongoing flow of ideas and cultural experiences between U of G and Iceland will heighten the interest and level of participation at both ends. □

The clock is ticking for Africa's Cinderella trees

by Anne Douglas
Office of Research

Africa's agricultural future may depend on endangered native "Cinderella" trees ... but the clock is running out.

It's a Cinderella story for the little-known native trees. They've been working for Africans for centuries, and now they're in the limelight for their potential use in African agriculture. The trees are said to have medicinal and nutritional properties, but they're being wiped out, mainly by human pressure.

The departments of Horticultural Science, Rural Extension Studies and Land Resource Science have teamed up to support master's student Anja Buwalda's work to save — and use — the Cinderella trees.

Buwalda is researching how Tanzanian farmers use the different indigenous fruit trees so they can be reproduced and used in agroforestry, a farming method that combines a row of trees interspersed with rows of staple crops such as corn and maize.

"My research will indicate whether these trees are economically viable enterprises in the farming system," says Buwalda. "This information will enable government and other organizations to establish farmer-based agroforestry research that includes indigenous fruit trees."

Life-saving resource

Indigenous fruit trees in the Miombo woodlands have provided rural people in Eastern and Southern Africa with medicine, timber, poles, firewood, oil, nuts, resins, fibres, animal feed and fruit for centuries. The trees have been life-saving resources during times of famine.

But the indigenous trees haven't had it easy. In colonial times, they were cut down to control tsetse flies, which use the trees as breeding sites.

Since then, a swelling human population has increased the demand for livestock grazing areas, agricultural land and living space, so many more trees have been cleared.

Researchers like Buwalda fear that losing the native trees means losing a rich fount of medicinal and nutritional resources and knowledge. So the first step of her research is to survey and interview the female farmers and elders about the different tree species and their uses.

So far, she's found that local women claim that fruit from the trees alleviates vitamin deficiencies and malnutrition among children and pregnant women.

Later, she'll develop ways to reproduce the trees so they can be grown for a variety of uses, such as:

- rehabilitating "worm-out" agricultural land with the trees to restore soil fertility;

- providing food reserves in times of famine;
- maintaining diversity in Africa's agricultural base;
- meeting the growing demand for traditional products by rural people who have flocked to African cities and have no access to food or medicine; and
- experimental agroforestry systems.

Agroforestry is a method of agriculture that may be an answer for Africa's agricultural challenges. Tree roots draw nutrients from deep in the soil; the nutrients travel to the leaves. When these leaves fall off, they provide mulch and fertilize the staple crops.

Help prevent erosion

Some fruit trees also fertilize staple crops by drawing nitrogen from the air. Nitrogen from the leaves is transported to the tree roots and into the soil, where other crops can use it for improved growth. In addition, trees help prevent erosion by securing the soil with their roots.

"An indigenous fruit tree revolution could help ease the destruction of the Earth's forests and woodlands," says Buwalda's co-supervisor Prof. Vince Souza-Machado, Horticultural Science. "Undomesticated indigenous trees were ignored by the Green Revolution, but Africa needs these resources, and this genetic diversity should be preserved," he says.

Buwalda's research is also supervised by Profs. Pieter Groenevelt, Land Resource Science, and Glen Filsen, Rural Extension Studies.

The work is being carried out in collaboration with the Christian Reformed World Relief Committee and the International Centre for Research in Agroforestry, which is also sponsoring Buwalda. □

International field-study grants awarded

Three students received awards in the 12th round of international field-study grants this fall.

Kathryn Holdforth, a BA student in the Department of Animal and Poultry Science, travelled to Honduras to study the nutritional intake of rural children. Andrew Millward, a B.Sc. student in environmental sciences, conducted a conservation and resource inquiry in Belize, in Central America.

Rae-Anne Zaroski, an M.Sc. student in the University School of Rural Planning and Development, is spending January to May in the Philippines examining local participation in sustainable agriculture technology development. □

WUSC symposium looks at women's rights

An international development symposium called "Women's Rights are Human Rights" will run at U of G Jan. 26 to 28. Sponsored by World University Service of Canada, the symposium will focus on the theme "Facing the Millennium: Old Problems, New Challenges."

Workshops and discussion groups begin at 4 p.m. Jan. 26 and continue Saturday through Sunday morning.

Topics include "Social Cuts and Women in Ontario," "The Girl Child," "Population Issues," "Follow-Up Action on the Beijing Conference," "Women in Tibet," "The Chilly Climate on Uni-

versity Campuses" and the experiences of women refugees.

During the symposium, Indai Lourdes Sajour of the Asian Women's Human Rights Council and Fatoumata Sire Diakite of the Association pour le progres et la defense des droits des femmes maliennes will share their experiences in working for women's human rights at the local, regional, and international levels.

Thematic contests of photography, creative writing, essays and participatory video will run in conjunction with the symposium. Reception will be held on Friday and Saturday evenings.

Cost of the symposium is \$5.

For more information, call 836-0733 or 821-2542 or send e-mail to rtiessen@uoguelph.ca or asymingt@uoguelph.ca. □

CIDA awards announced

The Canadian Bureau for International Education is seeking applications for its 1996 CIDA Awards for Canadians. The awards provide up to \$15,000 to Canadian citizens wishing to increase skills and knowledge in international development. Application deadline is March 31. For information, visit the Centre for International Programs InfoCentre on Level 4 of the University Centre. □

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NOTICES

Datapac service ends

The Datapac service will change May 1 because of high cost, low use and availability of alternatives. Calling out to Datapac from campus will still be possible, but changes are necessary to how the connection is made. There will be no way to get to the University facilities from Datapac. For more information on changes to the call-out service, call Bill Hansen in Computing and Communications Services at Ext. 6355 or send e-mail to bhansen@uoguelph.ca.

Study group to meet

Teaching Support Services and the Campus Ministry are sponsoring a study and discussion group focusing on Matthew Fox's book *Reinventing Work*. In his book, Fox proposes a spirituality of work that revitalizes and connects one's inner and outer work. There will be two opportunities to discuss the book each week — on Thursdays at 8 a.m. and at noon. Meetings begin Jan. 18. To register, call Helen Martin in TSS, Ext. 2973, or send e-mail to hmartin@tss.uoguelph.ca.

Home gardening series

Horticulturist Henry Kock will lead a five-session series on home gardening Feb. 19 and 26 and March 4, 11 and 18 from 7:30 to 9:30 p.m. at the Arboretum. Cost is \$50. Registration and payment are required by Feb. 12.

VON needs volunteers

The Victorian Order of Nurses visiting program is looking for volunteers to help alleviate the isolation and loneliness of elderly or disabled individuals by visiting, offering companionship, accompanying on walks or helping with errands. For information, call Katherine at the VON office at 822-5081.

TSS explains ToolBook

Teaching Support Services will offer introductory Multimedia ToolBook workshops Feb. 7 and March 7 from 1 to 4 p.m. in Room 103 of the McLaughlin Library. The workshop will include demonstrations of the software package and hands-on experience. Some knowledge of Windows is required. To register, call Helen Martin at Ext. 2427 or send e-mail to hmartin@tss.uoguelph.ca.

Agricultural lenders meet

The Office of Open Learning and OAC ACCESS are hosting the 42nd annual Agricultural Lenders' Symposium Jan. 30 and 31 at the Holiday Inn. Cost is \$399. For more information, call the Office of Open Learning at 767-5000.

Toxicology symposium

The Toxicology Students' Association presents the 10th annual Toxicology Symposium Jan. 27. This year's theme is "Regulatory Toxicology in the Next Millennium." For ticket information, call Biology House at 824-6270 or the UC box office at Ext. 3940.

Carousel launch

In celebration of the launch of the newest edition of the literary magazine *Carousel*, the Ontario, CFRU and the Central Student Association present an evening of readings by Leon Rooke, Terry Griggs, Gil Adamson and Russell Smith Jan. 25 at 8:30 p.m. in the University Club. Cost is \$3.

Come to the cabaret

Enjoy an evening of Broadway, jazz and palm court music at a Valentine Cabaret Feb. 10 at the College Inn. The evening features

the Guelph Cabaret Singers with special guests John McLelland and Phoenix Jazz. Doors open at 7:30 p.m.; showtime is 8 p.m. Tickets are \$25. Before the show, dinner is available at the inn for \$15. For ticket information, call Ext. 6580.

Address your stress

The Stress Management and High Performance Clinic is offering classes from Jan. 30 to March 17. Hour-long classes will run Tuesdays and Thursdays from 5:15 p.m. in Room 1708 of the OVC Learning Centre and from 8 p.m. and 12:10 p.m. in Room 441 of the University Centre. Brochures are available at the Connection Desk on Level 3 of the University Centre. For more information, leave a message at Ext. 2662.

English colloquium

The English departments at Guelph, the University of Waterloo and Wilfrid Laurier will hold a colloquium on "Professing English in the '90s and Beyond" Jan. 26 beginning at 1 p.m. at Laurier's Paul Martin Centre. For more information, call Betty King at Ext. 3882, e-mail bking@arts.uoguelph.ca.

Deadline extended

The Marketing Society is extending the deadline for submissions of résumés for inclusion in its 1996 *Business and Management*

Résumé Book, which goes out to more than 100 top companies in Canada. Cost of submission is \$20. For more information, call Ext. 6759 or send e-mail to mktgsoc@uoguelph.ca.

Environmental symposium

The Institute for Environmental Policy presents a symposium on "Environmental Management Policy: The Next 25 Years" Jan. 18 from 8:30 a.m. to 5 p.m. in Room 103 of the University Centre. Cost is \$15 for faculty, \$5 for students and others. For information, call the Faculty of Environmental Sciences at Ext. 4800.

Prowling for owls

The Arboretum is staging a Night Stalker's Owl Prowl Jan. 26 and 27 at 7 p.m. at the nature centre. Cost per session is \$9 general,

\$4.50 for children, \$25 for a family of four. Registration and payment are required by Jan. 19.

Call for proposals

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) invites submissions of new research proposals from faculty who do not have registered OMAFRA projects. Proposals must adhere to the guidelines of the Agricultural Research Institute of Ontario. Deadline for submissions is Jan. 31 to the respective program leader — Prof. Gord Surgeoner, Environmental Biology (plants), Prof. Roger Hacker, Animal and Poultry Science (animals), Prof. George Brinkman, Agricultural Economics and Business (systems), and Prof. Marc Le Maguer, Food Science (foods). □

JOBS

As of At Guelph deadline Jan. 12, the following opportunities were available:

Study Manager, Canadian Network of Toxicology Centres, temporary full time from Feb. 1/96 to March 31/97. Salary range: \$36,000 minimum, \$45,000 midpoint, \$54,000 maximum. Removal date: Jan. 17.

The following was available to

on-campus employees only:

Manager, Systems Services, Library. Salary range: \$45,600 minimum, \$57,000 midpoint, \$68,400 maximum. Removal date: Jan. 17.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

CLASSIFIEDS

FOR RENT

Large furnished upstairs room in farmhouse, 15-minute drive from campus, available Feb. 1, non-smokers, pets welcome, \$285 a month inclusive, Wendy, Ext. 8798 or 763-4149.

FOR SALE

Ranch-style home on large lot in University area, newly paved drive, new roof, fireplace, gas heat, central air, rental income available through two-bedroom basement apartment, Kim, 836-0737.

Ski/bicycle rack for rear-mounted tire, Beaumark heavy-duty washing machine, 767-0613.

FOR SALE

Snow tires: two size 13 with rims, one size 14 with rim, two size 12; Keeprite electric furnace, nearly new, Ext. 3561 or 821-5412 evenings.

Diversity and Teams in the Workplace, Seventh Edition, Plunkett, requirement for course "Managing People at Work," Lou Ann, Ext. 3956.

Three-bedroom brick bungalow on quiet cul-de-sac, walk to schools, University and downtown, hardwood floors, high-efficiency gas heat, 767-9872.

WANTED

Two-bedroom apartment or townhouse in central or south end of Guelph for March 1, working couple, 821-6189.

WANTED

Three- or four-bedroom house or townhouse to rent from January to August 1995 for visiting family of six from Belgium, Ext. 4936.

Spanish dictionary, Ext. 3561 or 821-5412 evenings.

Fellow PageMaker users on campus interested in setting up a mutual help group, Jennifer, Ext. 2923 or e-mail jsumner@access.uoguelph.ca.

AVAILABLE

Care for your dog in my home while you travel, references available, Cobi, Ext. 6010 or 836-8086.



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CALENDAR

FRIDAY, Jan. 19

Human Biology/Nutritional Sciences Seminar - Adam Drewnowski of the University of Michigan discusses "Energy Intake Regulation and the Sensory Properties of Food" at 11:10 a.m. in Animal Science/Nutrition 141.

TUESDAY, Jan. 23

Open House - The Human Rights and Equity Office invites members of the University community to visit its new quarters in Fielding House from 1:30 until 4:30 p.m., when official opening ceremonies will take place. Rosemary Brown, chief commissioner of the Ontario Human Rights Commission, will speak at 5:30 p.m. in HAF 209.

Cultural Studies Colloquium - Prof. Belinda Leach, Sociology and Anthropology, considers "Family Matters: Neo-Conservatism and the Politics of Work and Family in Hamilton, Ont." at 2 p.m. in the University Club.

THURSDAY, Jan. 25

Concert - Violinist Youri Zaidenberg and pianist Sofia Moshevich perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Cultural Studies Colloquium - "Communities and Cultural Identities" is the focus of a round-table discussion at 2 p.m. in the University Club.

Panel Discussion - The U of G Faculty Association is hosting a discussion of "Policies, Policies, Policies: How Do They Apply to You?" for faculty and librarians from 2 to 4 p.m. in UC 103.

FRIDAY, Jan. 26

Human Biology/Nutritional Sciences Seminar - "Do Beta-Adrenoceptors Play a Role in Skeletal Muscle Adaptations to Exercise?" is the topic of Louise Beliveau of the University of Montreal at 11:10 a.m. in Animal Science/Nutrition 141.

Lecture - OPIRG-Guelph and the Wellington-Dufferin-Guelph Health Unit present Rod MacCrae, director of the Toronto Food Policy Council, discussing "Strategies to Integrate Our Food and Health Systems" at noon in UC 103.

History Lecture - "The Host, the Law and the Ambiguous Space of Medieval London Taverns" is the topic of social historian Barbara Hanawalt of the University of

Minnesota at 2 p.m. in MacKinnon 132.

Concert - Ernie Tollar and Band perform "Mecca-World Beat/Jazz" at 8 p.m. at the Macdonald Stewart Art Centre. Admission is \$10 general, \$6 for students and seniors. For ticket information, call the Department of Music at Ext. 3127.

SATURDAY, Jan. 27

College of Arts Colloquium - "Constructions of Youth" is the theme of talks running from 10:30 a.m. to 4 p.m. in Room 114 of the MacKinnon Building. Plenary speaker Barbara Hanawalt of the University of Minnesota discusses "Narratives of a Nurturing Culture: Parents and Neighbors in Medieval England" at 2:30 p.m.

TUESDAY, Jan. 30

Cultural Studies Colloquium - Prof. Margaret Priest, Fine Art, discusses "The Monument to Construction Workers" at 3 p.m. in the University Club. The talk will be followed by a round-table discussion of "The Cultural Work of Public Art."

WEDNESDAY, Jan. 31

Third Age Learning - The lecture series for retired people continues with Prof. Neal Stoskopf, Crop Science, discussing "Perspectives on Chinese Issues Related to Agriculture" at 10 a.m. and retired English professor Percy Smith examining "The Simpleton of the Unexpected Isles by George Bernard Shaw" at 1:30 p.m. Lectures are at the Arboretum Centre.

Gift shop gets new look

The future looks bright for the gift shop in the Macdonald Stewart Art Centre (MSAC).

That's because shelving has been removed from the windows and a new paint job is gracing the walls. The consolidation of shelving on to one wall and better use of floor space makes the area more inviting, says shop manager Sandy Dubrule. The changes are part of renovations done recently at the shop to mark the 15th anniversary of the centre.

"For members of the University community who are unaware we exist or haven't been by in a while, now is a great time to come check us out," says Dubrule. "We offer a selection of things not commonly found throughout the city, and proceeds are used by the centre to acquire new pieces. Supporting the gift shop is a way to support your local art gallery as well."

Regularly featuring Inuit art such as soapstone carvings, the shop also carries the work of area artisans like jewelry maker Sarie

Marais of Salem and potters Goldie Sherman and Laura Taylor of Guelph and Heather Daymond of Puslinch. Textiles and glassware are also available, and paintings by area artists are available for purchase or rent.

Important as a source of art textbooks, the MSAC gift shop is also one of only a few locations in the province affiliated with and carrying the publications of Artex - a Montreal-based contemporary art information centre that provides access to information on national and international art developments.

Dubrule is particularly excited about two new initiatives at the shop. "Videos from the National Film Board of Canada are just in and available for purchase, and scarves and ties featuring the Guelph tartan will be available early this year."

The shop, which is run by volunteers, is open the same hours as the gallery - Tuesday to Sunday from noon to 5 p.m. and Thursdays from noon to 9 p.m. □

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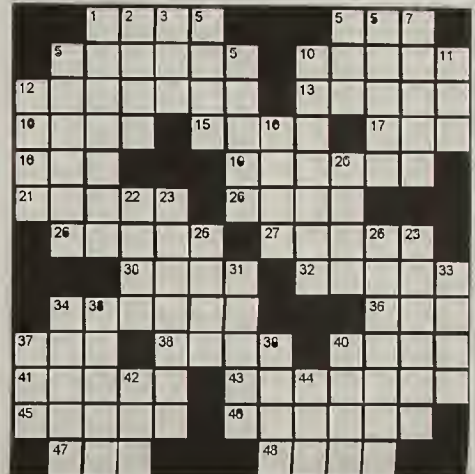
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8. Uncultivated
10. Unrefined
12. Basque game
13. Direction sign
14. Four roods
15. Cut down
17. Wrath
18. Grande
19. Lure into trouble
21. Wooden shoe
24. Equivalent title of sir
25. Reddish-brown organ
27. Hockey discs
30. Advances in years
32. Swerves
34. Ionic capital scroll
36. Iced beverage
37. Coniferous tree
38. Residue
40. Seasoned fighter pilots
41. Old World lizard
43. Dangerous circumstances
45. Saltpeter
46. Calf muscle
47. Allow
48. Shed tears

DOWN

1. Kenya capital
2. Wings
3. Feeling terrible
4. Do nothing
5. Famous Bruin
6. Piece of bric-a-brac
7. Bedeck
8. Type of massage
9. Handle a weapon
10. Sweet flag
11. Female sheep
12. Glass containers
16. Abrupt transition
20. Ship's floor
22. Ellipsoidal
23. Arranged like tiles
26. Network
28. Tomato sauce
29. Candy
31. Oozes




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COMMENTARY

Human rights policy should stress freedom

by Prof. Keith Cassidy

The recent announcement in *At Guelph* that work would begin this month on the drafting of a comprehensive human rights policy represents an important turning point for the University. It can either mark a positive step towards a more just and harmonious climate or it can produce the divisive and destructive results so evident at some other institutions.

Before we move into the process of drafting those policies, it would be useful to sort out some of the expectations that can reasonably be made of them and some of the principles on which they should be based.

The following remarks are personal observations and do not necessarily reflect anyone else's views. They are offered as a contribution to the discussion and reflect the belief that it is possible to craft policies that are fair to all and consistent with the objectives of the University. It is necessary to stress this point because the despairing thought is sometimes uttered that there is an irreconcilable conflict between such objectives as academic freedom and what is referred to as educational equity or inclusiveness. In fact, if approached in a spirit that seeks fair and workable solutions, rather than narrow self-interest or rigid, extreme formulations, we can create policies that advance the interests of everyone here.

We should begin with the fundamental fact that this is an educational institution, and a human rights policies must recognize and support its academic objectives. Several consequences flow from this.

One is the need for academic freedom. It is unfortunate that for some, references to the principle of "academic freedom" are seen as simply screens for resistance to change and the defence of privilege. In reality, a secular university, which by definition does not have at its root a commitment to any orthodoxy, cannot have any principle other than the pursuit of the truth as its guiding light. Every issue must be open to examination, and every view must be capable of being freely expressed. To do otherwise is to create an orthodoxy by indirection.

Where this has happened, the university, rather than being a particular bastion of liberty, ironically becomes "an island of repression in a sea of freedom." There are alarming signs that this has already occurred at numerous institutions across North America and that, in consequence, there has been real damage to the ability of universities to discharge their central function.

Far from academic freedom being a shield for privilege, it can be argued that those who have gained the most from it have not been those with conventional views or established interests, but rather the more radical members of the faculty, who advance with impunity profound challenges to the existing order.

Indeed, it can be further argued that our campus does not suffer from an excess of academic freedom, but from a climate that has rendered many faculty members far too cautious. An adequate human rights policy would make clear that no matter how provocative or offensive, research findings, discussions of public policy

and classroom lectures should not be subject to review by any human rights body.

It should be remembered that academic freedom includes the right to speculate, as well as the right to expound already accepted views and scientifically established facts. Indeed, a good human rights approach should worry if there is little or no controversy, or if controversial opinions are expressed only on one side of the political spectrum.

An important clarification of this should be made. Speech that addresses important issues — however disturbingly — is not the same as personally abusive, threatening or harassing speech. The right of members of the University community — not only faculty, but students and staff as well — to speak freely is accompanied by the obligation to prevent a climate in which fear and abuse choke off the rights of others to express themselves.

This distinction must be made clearly and carefully. For example, although threats and abuse directed at gay and lesbian members of the community are intolerable, a discussion of the social consequences of homosexuality that reaches negative conclusions should not be banned, however unwelcome it may be to many.

Far too often, it is assumed that if a discussion makes people uncomfortable, it must be stopped. This arises from a confusion about the fundamental purpose of a university — it is to stimulate thought, not to provide emotional support, personal validation or reinforcement of existing ideas. If the pursuit of an education proves uncomfortable, then it is doing what it should. To expect to go through university and never hear ideas that offend you is to not only will the suppression of others' freedom, but also to will your own stultification.

What is the University community to do about the uncivil uses of speech? Although clearly it is necessary to forbid personally abusive talk and to provide penalties for its wilful use, the real defence against it lies in fostering a

civil atmosphere. Voluntary, respectful and non-manipulative educational programs that encourage civility while supporting a true diversity of views are an essential component of a human rights policy. Such programs should not be an opportunity for those running them to advance their own social and political agendas. They should make clear that the University forbids no views, but does proscribe certain behaviors.

Procedures must, of course, be established to deal with alleged cases of discrimination and abuse. Such procedures will gain acceptance only if they are widely perceived as fair. Hearing panels must be composed in a fashion that is scrupulously impartial. There should be a presumption of innocence of the accused, and there must be an adequate mechanism for screening out frivolous or malicious charges and penalizing those who bring them. Both the accuser and the accused have the right to a clear resolution of their cases; it is intolerable if charges can be laid and never brought to a definite conclusion.

It is no secret that serious dissatisfaction exists with the current sexual and gender harassment policy; a review of that policy must be a part of the formulation of a human rights policy.

There is another aspect to academic freedom besides the protection of free speech or the prevention of abuse or unjust charges. Academic freedom does act as a shield against repression, but it has another side — it actively seeks to open inquiry from a diversity of viewpoints.

Although the University can never be "inclusive" in any absolute sense, it can and should be open to a wide variety of approaches and traditions. Moving to this objective while keeping in mind the need to retain some coherence in the curriculum and an adequate coverage of the major traditions that have historically shaped Canadian politics and society is a challenge at any time. Moving to it in an era of shrinking budgets and declining faculty

numbers is an even greater puzzle, but not an insoluble one.

Without limiting the academic freedom of faculty to teach courses by the light of their own best professional judgment, it is reasonable to ask that certain steps be taken to advance the cause of educational diversity. Students should know in advance the approach to be taken by an instructor. They should be told if there are alternative interpretations of a subject. And they should be free to hold alternative views, as long as they can demonstrate an understanding of the approach taken by the instructor.

Where the subject matter of a course is limited, efforts can be made to point out supplementary material covering other aspects of the topic. Students can perhaps be permitted to do essays or projects on themes or materials not included in the main body of a course.

Clearly, other approaches to achieve this objective are also feasible. A conscious effort to expand the educational opportunities available to our students does not limit academic freedom — it enhances it.

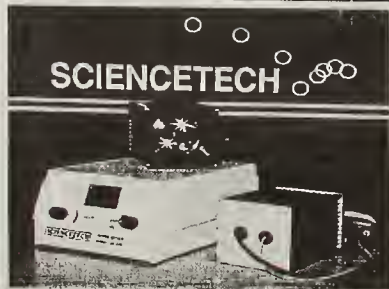
In sum, then, both a human rights policy and any companion policy on educational equity should stress freedom — from censorship, from discrimination, from malicious accusations and from unnecessary limitations on opportunities to learn.

Obviously, in these few words, it has not been possible to address some issues or to give adequate treatment to others. No doubt these limitations will draw attention. Permit me, though, to close with a reiteration of this fervent belief — a fair, workable human rights policy is possible if we will make the effort. The alternative is a sour, rancorous campus atmosphere that does nothing to advance the purposes for which we are here.

Prof. Keith Cassidy is a faculty member in the Department of History.

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AT A GLANCE

Dean candidates to speak.

Two candidates for the position of dean of CPES will give public lectures on "Future Directions of the College." Prof. Isobel Heathcote, Engineering, will speak Jan. 26; Prof. Bob McCrindle, acting dean of CPES, will speak Feb. 9. Both talks are at 3:10 p.m. in Room 113 of the MacNaughton Building. Following the presentations, the candidates will be available for questions. The search committee, chaired by provost Iain Campbell, invites comments on the candidates, preferably in writing.

Krakow semester update.

An information session about the fall '96 Krakow semester will be held Jan. 25 at 7 p.m. in Room 129 of the HAFS Building. Alumni of the semester will be on hand. The deadline for applications is Feb. 1. For more information, call semester co-ordinator Prof. John Pratschke, Consumer Studies, at Ext. 6907.

What a sport! As a former Olympic canoeist, OVC student Jack Chubaty is never up a creek without a paddle... page 5

The commentary page.

Prof. Sandy Middleton, Zoology, responds to an earlier discussion of learner centredness and the learning objectives. On the lighter side, Prof. John Roff, Zoology, offers a humorous view of Guelph's mission statement... page 8

Thought for the week

A day without laughter is a day wasted.

Charlie Chaplin

Guelph to honor three at winter convocation

More than 800 students will graduate and three academics will be honored at winter convocation ceremonies Feb. 1 and 2.

The University will bestow an honorary doctorate of science on botanist Barry Tomlinson and the title of University professor emeritus on retired French studies professor Leonard Adams. The annual John Bell Teaching Award will be presented to Prof. Gordon Lange, Chemistry and Biochemistry.

Tomlinson will address students graduating from CBS and OVC Feb. 2 at the 2:30 p.m. ceremony. Adams will address students graduating from the College of Arts and FACS Feb. 1 at the 10 a.m. ceremony. Lange will address students graduating from OAC and CPES Feb. 2 at 10 a.m.

Prof. Louis Christofides, chair of the Department of Economics, will give the convocation address to students graduating from the College of Social Science Feb. 1 at 2:30 p.m.

Barry Tomlinson

Educated in England, Tomlinson has held appointments at the University of Malaya, the University of Ghana and the Fairchild Tropical Garden in Miami. He has been a botany professor at Harvard University since 1971 and was named the first E.C. Jeffrey Professor of Biology at Harvard in 1985 in recognition of his outstanding contributions to biology.

Tomlinson's pioneering work on the growth and structure of tropical plant species has drawn attention to the enormous diversity of growth forms in tropical rainforests and the importance of understanding this diversity. He is also an expert on the anatomy of aquatic plants, plant architecture and, more recently, the development and function of reproductive structures in gymnosperms.

His work on plant architecture is unique in that it considers all aspects of tree growth and development, the effects of environmental changes and the rapid response of plants to these changes.

Author of eight books and more than 125 research papers, Tomlinson has been recognized for excellence in research by be-

ing named a fellow of the Linnean Society of London and by being appointed to many review panels, including the National Science Foundation Advisory Panel for Systematic and Evolutionary Biology.

Leonard Adams

Adams joined U of G in 1967 as a member of the Department of Languages and Literatures. Between 1972 and 1990, he served seven stints as acting chair of the department. In 1992, he became the first official chair of the new Department of French Studies, a position he held until 1994. He retired in 1995.

Adams is the author of numerous articles, papers, abstracts and book reviews that have contributed to the fields of 18th-century French literature and religious history. He also published a seven-volume edition of the Gallican correspondence of William Wake, who was Archbishop of Canterbury in the early part of the 18th century. This work has been cited as historically significant and of major value for 18th-century European studies.

Although retired, Adams is currently investigating clerical and philosophical dissent in 18th-century France, focusing on the character of Pierre-François Le Courayer.

In addition to his scholarship, Adams has received accreditation from the Paris Conservatory as a singer and has been the recipient of a number of prizes for his performances in this area.

Gordon Lange

The John Bell Award cites Lange for his all-round talents as a teacher and a mentor of graduate students, as well as for his role in curriculum development. A faculty member at Guelph since 1967, he has often been described as "an excellent prof" and "the best I've had" by his students.

His teaching abilities have been previously recognized with a 3M Teaching Award in 1991 and an Ontario Confederation of University Faculty Associations Award in 1984.

He also received a teaching award from the University of Guelph Faculty Association in 1983 and the Union Carbide



Barry Tomlinson



Leonard Adams



Gordon Lange

Award of the Chemical Institute of Canada in 1986.

Lange's interest in curriculum development has led him to serve as chair of his department's undergraduate curriculum committee, as well as to teaching many new courses, including the interest course "Chemistry Today" for non-science students. He has presented workshops on teaching techniques to faculty and graduate students, and has served on Guelph's B.Sc. and B.A.Sc. program committees, Akademia board and Board of Undergraduate Studies. □

Staff to sit on Senate

U of G's staff members are to have a voice on Senate.

At its Jan. 16 meeting, Senate endorsed a Committee on Bylaws and Membership proposal calling for two staff members to join the academic governing body beginning in September. They will be selected through a nomination and election process similar to the one used to elect staff members to Board of Governors. A call for nominations has been sent to all staff members. The deadline for submissions is Feb. 2.

Senate's action springs from the University's strategic planning document, *Making Change*. Recommendation 5 calls for Guelph to develop a human resources management philosophy that includes the involvement of faculty, staff and students in the University's decision-making processes.

In its report to Senate, the Committee on Bylaws and Membership noted that staff are partners in the academic enterprise and that providing them with representation on Senate will enhance this partnership. It will also give Senate access to the specialized expertise of staff, who are playing an important role in academic programs.

The addition of two staff members will not increase the size of Senate. The recent merging of departments and positions resulted in a reduction of Senate by six seats, and further reductions are anticipated as other units merge.

Winter enrolment down

Guelph's undergraduate enrolment this winter reflects national and local trends in declining admissions as well as flow through of the previous enrolment-reduction plan, Prof. Constance Rooke, associate vice-president (academic), informed Senate.

A total of 11,774 students are on campus for the winter 1996 semester, 580 fewer than in winter 1995, according to figures released by the Registrar's Office Jan. 12. Full-time enrolment stands at 10,230, down 348 from last winter; part-time enrolment is 1,544, down 232. Rooke told Senate the winter enrolment figures are not surprising, given the previous enrolment-reduction plan.

Enrolment generally across

See ENROLMENT on page 3

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STUDENT SPEAK

BLA students earn kudos for designs

by Joanna Van Felkerzam

Two BLA students received commendations at the 1995 American Society of Landscape Architecture National Student Design Competition.

Lori Ellis and Robert Klemenchuk developed their projects in the fifth-year thesis studio with Prof. Walter Kehm and instructor Fiona Rintoul.

The jury was impressed with Ellis's "quality of integration of the concept into the context and communication" displayed in her Torrance Public School Playground project. Her design measured sensory stimulation through naturalization and extension of the classroom education to the outdoors. She received the commendation in the individual design category.

Klemenchuk's design was honored in the undergraduate individual research category. His project, "Mount Washington Ecological Land Units Model," models human-manipulated alpine ecosystems to predict regen-

eration and natural growth patterns in clear-cut or otherwise damaged areas.

Kehm and School of Landscape Architecture director Jim Taylor say they're pleased with U of G's results in this North American competition. Out of 55 universities with landscape architecture programs in North America, only five are in Canada. Two commendations for Guelph students in two consecutive years is an achievement that develops a strong reputation for Guelph, Taylor says.

Kehm says the award is especially gratifying because students must enter on their own initiative and present their project to a large audience.

"Their ideas must be communicated verbally, graphically and in writing, which requires a multidisciplinary education," he says.

He also emphasizes that interdisciplinary competitions help students prepare for the industry, where self-directed creative thinking is a necessity.

"The undergraduate thesis program has been an extremely successful academic model to foster undergraduate learning," he says.

Carousel on 11th run

Carousel, the annual student-run magazine, launches its 11th issue Jan. 25.

"This is by far our biggest and best issue yet," says Michael Carbert, *Carousel's* chief editor. "This new issue presents a wide range of writers from across Canada. We have a good mix of emerging local talent, as well as already established writers, such as Leon Rooke. We hope the University community will get excited about this issue."

To mark the issue's launch, the Ontario, CFRU and the Central Student Association are presenting readings by Rooke, Terry Griggs, Gil Adamson and Russell Smith Jan. 25 at 8:30 p.m. in the University Club. Cost is \$3.

Carousel publishes poetry, fiction, visual art, essays and interviews with prominent writers.



Joanna Van Felkerzam

Although *Carousel* has been published since 1983, Carbert says it only started to gain stability and cohesiveness in 1990 when several student volunteers made a long-term commitment to work on the production. Since then, the magazine has become a member of the Canadian Magazine Publishers' Association with Canada-wide distribution, and this past spring, U of G students voted to contribute 80 cents a semester to the magazine.

"Although we have received funding from the Central Student Association and College of Arts Student Union in the past, *Carousel* has never had ongoing funding before, and this is a good base to start with," says Carbert. "We hope to establish *Carousel* as a permanent fixture on campus." □

LETTERS

All campus funds must be used as efficiently and equitably as possible

I wish to respond to Laurie Halfpenny's letter about varsity athletic funding in the Jan. 10 issue of *At Guelph*. I was a participant in — although not the originator of — the discussion in the newsgroup *uog.ideas* about saving money by not funding varsity teams that operate at a deficit.

I wish to thank her for her response and clarification of the fee structure, but it still doesn't address the issue I believe was being raised in the newsgroup. I would encourage her to read the newsgroup if she hasn't already.

Regardless of "student athletic fees" being the category from which funds come for varsity programs, why are varsity teams using funds they don't directly generate? I'm paying raised fees to use the circuit room, aerobics classes, weights and facilities; the hours during which I can swim are being cut; the change room plumbing is appalling; and the hot tub took months to repair — all because of "lack of funds," I was told.

Why not put student fees towards more equitable and affordable fitness and wellness programs for all members of campus? Or, if it is judged that funding for those more open and equitable programs is adequate,

reduce the student athletics fee and contribute it to more needy areas of campus.

If people believe that attending varsity events is an important part of their university experience, I'm sure they will indicate this by paying at the gate. I have never been a sports fan, never attended a varsity or professional sports event and have no intention of ever doing so. I know many people

who feel the same.

A comment in the newsgroup came from a varsity athlete who complained that her team didn't get enough money and that she didn't even get a new uniform. Pardon me, but why don't you buy one?

I pay on the order of \$100 a semester to the campus athletics program before I use anything. Then I pay for my various pro-

grams and facilities, about another \$200 per semester. I must buy my clothes, footwear and sometimes very expensive specialized equipment to participate in the fitness programs I enjoy. I use the Athletics Centre four or five times a week and am lucky enough to have a part-time job, because without it, I wouldn't be able to participate in athletics.

I do appreciate the response, but

I'm afraid that justifying the expense of varsity teams that operate at a deficit (please note that was the issue, not varsity teams in general) by saying: "It's only student fees that pay for them" is not satisfactory to some people. All funds on this campus need to be used as efficiently and equitably as possible.

Joanna Botari
M.Sc. student, Engineering

Spread the good name of Otis across the continent

At Guelph's Jan. 10 cover photo of my namesake, Otis, the moveable dog skeleton wrapped in felt, initially struck me as somewhat "humorous." Tony Wagenaar and Prof. Howard Dobson seemed to be enjoying their fuzzy friend, and it reduces the use of live animals. Great idea!

But then, the paranoia struck. (There's a lot of that on campus these days.) Was it simple coincidence that this mindless mutt was named Otis or was this a personal attack directed at me? A quick check of the U of G telephone book showed that there's only one person with the surname "Otis" on campus. The explanation

that the dog's name was derived from the Greek word "osteon," meaning bone, wasn't convincing. If that were true, why wasn't the copycat canine called "Osteo" or "Osti"?

And of the thousands of names in this world, why Otis? It took little perception to note that it also wasn't named Ruse, Rattray, Rooke or Rozanski (all you other folks were spared this humiliation). I could only conclude that I had been purposely singled out from everyone else on campus.

OK, so some dumb dog dummy was named for me, but so what? No big deal, you say? Wrong! Flip to the related article on page

five and read the title: "Is It Live or Is It Otis?" The implications behind this title are staggering. Am I a living, breathing, professing professor or simply an analogue of a lifeless bag of bones? Are my lectures that lifeless and uninspired to warrant this direct association to an inert spaniel? If this is truly a personal attack, maybe I can turn this libellous situation into a lucrative lawsuit that will allow me to retire 21 years before my official retirement day.

Perhaps I'm overreacting. After all, the name could be a coincidence. And if the pretend puppy was named after me, maybe I

should accept this recognition with grace. It could be one of the few honors I will ever receive from U of G. We shouldn't overlook the fact that Guelph has elected to name many of the elevators on campus after me (and without my having to donate large sums of money to achieve this distinction).

Having now seen both sides of this issue, I realize I should be grateful to have been unknowingly immortalized. To you folks in OVC, promote that stuffed animal and spread my good name across the continent!

Prof. Gard Otis
Environmental Biology

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On U of G turf. Guelph MPP and Ontario Environment Minister Brenda Elliott checks out a map with details of site-specific farming at the Guelph Turfgrass Institute (GTI). On campus Jan. 18 as part of an ongoing series of tours of U of G facilities and sites that are examples of emerging environmental technologies, Elliott also visited the aquatic sciences facility. With her, from left, are Thom Charters of the Ontario Turfgrass Research Foundation and GTI director Rob Witherspoon. Photo - Kerith Waddington, University Communications

Enrolment management under review

Continued from page 1

Canada is down. The Jan. 9 issue of *The Globe and Mail* quoted Statistics Canada figures showing that full-time enrolment at Canadian universities dropped in 1995 for the first time in almost two decades, with the most pronounced decline in part-time enrolment.

Rooke has struck an enrolment-management committee to provide advice on how to achieve appropriate enrolment levels for 1996/97. Over the longer term, the committee will examine the whole concept of enrolment management — from the first point of contact with a potential applicant through to graduation. The committee is chaired by FACS dean Michael Nightingale.

Still waiting

President Mordechai Rozanski told senators that Guelph, like sister institutions across the province, is waiting for news from the Ministry of Education and Training of the actual cuts to each university, as well as clarification on tuition fees. (For more details, see Board of Governors report on this page.)

Latin America semester

Senate supported a Senate International Committee (SIC) proposal that a Latin America semester in La Antigua, Guatemala, be considered in the ranking process of semesters abroad for funding. In anticipation that not all Senate-approved semesters abroad will be fully funded, SIC is establishing the criteria for the ranking process. The budget for semester-abroad programs has not yet been determined.

The Latin America semester, approved by the Board of Undergraduate Studies (BUGS), would be offered jointly by Guelph and the University of Saskatchewan. Proposed by Prof. Kris Inwood, Economics, and Saskatchewan history professor Jim Handy, the semester abroad would allow students to investigate first hand social and political organization, cultural, environmental and demographic change, and the development process in a Latin American context.

Directed primarily at third-year international development students, the program, if funded, is expected to have a trial offering in the winter 1997 semester. Students will be boarded with Guatemalan families and will be expected to become fluent in Spanish.

The program will rely on co-operation with the Centro de Investigaciones Regionales de Mesoamérica (CIRMA), a research and education institution operated by an international independent charitable foundation. Handy and Inwood have been CIRMA research associates for several years.

In other business, Senate approved a BUGS recommendation that U of G's official undergraduate transcript not include the University's average grade, but that the unofficial summary for academic progress continue to include it. The change, effective immediately, brings Guelph in line with other Canadian universities and with Guelph's graduate transcripts.

Visitors

Senate welcomed to its meeting chancellor Lincoln Alexander, who wished the governing body a productive new year. Senate was also introduced to John Mabley, new vice-president (University affairs and development), who has begun a series of meetings with college deans and vice-presidents. □

B of G nod strengthens faculty conduct policies

Board of Governors passed amendments Jan. 18 to faculty disciplinary, suspension and medical disability policies, as proposed by the Joint Faculty Policies Committee (JFPC).

The revisions were approved by faculty and the U of G Faculty Association before JFPC forwarded them to president Mordechai Rozanski, who presented them to the board for approval.

The release of the Cowan and Arthurs report last year sharpened thinking at U of G about examples of misconduct or failure to perform faculty responsibilities and about allowing the administration more flexibility to take action in a way that recognizes academic freedom and the right to due process, the president said in his report to the board.

The changes also complement separate discussions that have been taking place on campus related to research misconduct and human rights abuses.

The revised disciplinary policy extends examples of inadmissible conduct and presents a more finely calibrated range of disciplinary measures. The revised policy emphasizes staged attempts to resolve difficulties and allows for the setting up of a disciplinary tribunal — a committee of peers that will determine disciplinary action. An appeal process is also defined.

In other JFPC matters, B of G approved revisions to the policy on membership of selection committees. These make way, for the first time, for staff presence on selection committees and, in the case of the selection committee for the president, for the election rather than the appointment of a staff representative.

Budget process

A critical path for constructing and communicating the 1996/97 Ministry of Education and Training (MET) operating budget was presented to B of G.

Rozanski informed the board that Guelph is making good progress towards identifying the funding shortfall now projected at 15 to 16 per cent of the MET

transfer grant for the 1996/97 fiscal year, but there is no indication of what will happen in the following year.

The actual shortfall for 1996/97 can't be determined until Queen's Park provides more detailed information about the provincial cuts and about guidelines on tuition fees and visa fees. Rozanski said the provincial government is expected to announce this information Jan. 29.

In the meantime, meetings are continuing with Executive Group, the president's budget advisory group, the Vice-President's Advisory Council and administrative managers to quantify the shortfall and propose solutions in the three categories of administrative savings, revenue and staffing/compensation. Meetings are also scheduled with the Senate Committee on University Planning (SCUP) later this month and with the Consultative Forum.

Town hall meetings for faculty and staff will be held after the Jan. 29 Queen's Park announcement, said Rozanski, who will also meet with the Graduate Students' Association and the Central Student Association.

Discussions on salary and benefits began with the Professional Staff Association Jan. 15. Negotiations begin Feb. 1 with the UGFA, March 1 with the U of G Staff Association and exempt staff, April 1 with CUPE and the Ontario Nurses' Association, May 1 with the Foodservice Employees Association and June 1 with CUOE and the U of G Police Association.

SCUP is expected to take a draft budget to Senate for consideration April 16. It will then be presented to B of G for approval April 25.

SPC update

Prof. Constance Rooke, associate vice-president (academic), gave an update on the status of strategic-planning recommendations. The Strategic-Planning Commission will produce a six-month progress report that is expected to be published in *At Guelph* sometime in March. □

Mac class donates a piece of the past

Each time they meet for a reunion, members of the Macdonald Institute's Class of '35 donate to the University in the form of scholarships to OAC students, prints for the Macdonald Stewart Art Centre or an Arboretum bench. Their 60th-anniversary gift, however, has added historical value for Mac Institute and the class itself.

With fellow Class of '35 members looking on, Olive Thompson, past president of the institute's alumni association, presented the University with a collection of Mac Institute menus dating from 1904 to 1939.

The menus have archival value because they represent the beginnings of the institute by documenting spring banquets organized by the juniors for the seniors. The menus provide a good record of items, prices and guest lists of visiting officials, such as the Prince of Wales.

For Thompson, these menus represent a time when "the college was much smaller and social activities were centred on campus. We went in the days when

we couldn't be out past 8 p.m. It was also a girl's paradise, since there were 200 girls for 600 boys. It produced many marriages. I myself married an OAC '37 grad."

Her two children also graduated from Guelph, and it was her daughter, Jean Thompson, who drew attention to the menus. They had been bought by Ray Mitchell, owner of the Family Thrift Store in Guelph, in a box of pamphlets at an auction of items owned by Mabel Sanderson, a former professor at Mac Institute.

The menus weren't discovered until Jean Thompson, Mitchell's neighbor, happened to browse through the box, and the first document she took out was signed by her mother. Mitchell then offered to let her show the collection to her mother.

This coincidental discovery saved the menus from being "tossed in the garbage," says Mitchell, and it ensured their perpetuity in the University's archives. □

Day of action set Feb. 7 to protest funding cuts

Organizers of a day of action, called by the Canadian Federation of Students (CFS) to protest government funding cuts, are anticipating wide support from many campus and city groups Feb. 7.

On campus, the day will start at 8 a.m. with a demonstration outside classrooms. This will be followed by a series of teach-ins beginning at 10 a.m., a noon rally in the University Centre courtyard and a march downtown.

Speakers at the rally will include representatives of the Central Student Association, the Graduate Students' Association, Guelph Coalition Against the Cuts (GCAC), local unions, the Guelph and District Labor Council, Guelph Socialists, housing

groups, faculty, single mothers and social-service recipients.

"This day of action is important because of increased attacks of the Harris government on public education," says U of G student Tom Keefer, a member of GCAC's action committee.

Classes won't be cancelled Feb. 7, but a memorandum from president Mordechai Rozanski has requested that faculty avoid scheduling tests or important assignments, where possible, between 10 a.m. and 2 p.m., so that interested students can attend the day's events.

In addition, faculty can postpone classes scheduled for that time until another day. □

RESEARCH

The Ministry of Natural Resources awarded Prof. **Moir Ferguson**, Department of Zoology, \$12,000 for the project "Ecological and Genetic Factors Influencing Walleye Population Rehabilitation Rates in Eastern Georgian Bay and the North Channel" and \$7,000 for an "Ecological Genetics Study of Eastern Lake Erie Walleye in Presumed Mixed-Stock Sport and Commercial Fisheries."

The Canadian Network of Toxicology Centres has provided \$31,750 to Prof. **Bev Hale**, Horticultural Science, \$40,000 to Prof. **Herman Boermans**, Biomedical Science, \$135,000 to Prof. **Kristin Day**, Environmental Biology, \$40,000 to Prof. **Keith Solomon**, Environmental Biology, and \$120,000 to Prof. **Glenn Van der Kraak**, Zoology. From Fisheries and Oceans, Van der Kraak received \$45,000 for "Determination of the Performance of White Sucker at Reference Sites: Completion of Phase 1 Sampling," \$4,725 for "Analysis of Plasma Samples for Reproductive Steroids and Vitellogenin in Fish Exposed to TFM Formulations" and \$5,502 to "Analyse Vitellogenin Gonadotrophin II and 17A, 20B-Dihydroxy-4 Pregnen-3-One in Burbot Plasma Samples Collected from Laboratory Experiments." He also received \$15,040 from Noranda Inc. to study "Sister Effects on Fish Reproduction, Phase 1."

Prof. **Susan Brown**, English, received \$39,490 as the first instalment of a five-year award from the University of Alberta under the Social Sciences and Humanities Research Council's major collaborative initiatives program for "An Integrated History of Women's Writing in the British Isles."

Synchrude awarded Prof. **Nigel Bunce**, Chemistry and Biochemistry, \$22,000 for "The Study of Environmental Dynamics of Base Neutral Compounds from Oil Sands Fine Tails."

Prof. **Tom Carey**, Computing and Information Science, received \$18,900 from IBM for "Customer Action Logs for Usability Analysis."

Prof. **Ward Chesworth**, Land Resource Science, was awarded \$30,000 by Noble Pursuits Inc. for an "Acid Mine Drainage Research Program."

Degussa AG, Archer Daniels Midland Eurolysine, has provided \$420,000 over three years to Prof. **Kees de Lange**, Animal and Poultry Science, for his work on "Amino Acid Catabolism by the Growing Pig." He was also awarded \$10,000 by the Ontario Pork Producers Marketing Board to study "The Effect of Sex and Body Weight on the Relationship Between Energy Intake and Lean Growth in Growing Finishing Pigs."

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) has awarded \$17,700 to Prof. **David Elrick**, Land Resource Science, for "Research Into Improving the Technology Known as the Guelph Permeameter."

OMAFRA's Food Systems 2002 has provided \$42,720 to Prof. **Tom Hsiang**, Environmental Biology, for his work on "Resistance to Demethylation-Inhibiting Fungicides in Ontario Turfgrass Pathogens" and \$8,010 to Prof. **Paul Goodwin**, Environmental Biology, for "Completion of the Development of a DNA Probe to Assay the Aster Yellow Mycoplasma." Goodwin also received \$14,500 from the MNR and Ontario Forestry Research Institute "To Survey Landscape Trees in Ontario to Determine if *Xylella Fastidiosa* is Present and Attempt to Determine the Distribution of the Pathogen."

The Alzheimer Society of Brant provided Prof. **Ben Gottlieb**, Psychology, with \$2,875 to study "Factors Influencing the Appeal and Timing of Alzheimer Day Program Use by Family Caregivers of Elderly Persons."

The Ministry of Community and Social Services has awarded \$3,000 to Prof. **Susan Evers**, Family Studies, for "Analysis of Data Relating to Childhood Nutrition."

Prof. **Pat Gentry**, Biomedical Sciences, received \$45,000 from Miles (Bayer)/Canadian Red Cross Society Research and Development Fund for her work on "Customized Lipid-Modified Human Platelets."

Prof. **Mansel Griffiths**, Food Science, received \$40,315 from the Canadian Meat Council, OMAFRA and Agriculture and Agri-Food Canada for "Rapid Hygiene Monitoring for Meat-Processing Operations."

The Max Bell Foundation awarded Prof. **Paul Hebert**, Zoology, \$205,000 over three years for a faunal atlas.

Prof. **Dave Hume**, Crop Science, received \$3,500 from AgrEvo Canada Inc. for "Field Testing of Transgenic Spring Canola."

Prof. **Mark Hurtig**, Clinical Studies, was awarded \$30,000 by SenMed Corp. for his work on "Resurfacing Damaged Joint Surfaces with Reconstituted Cartilage."

Agriculture and Agri-food Canada has provided the following support:

- \$52,500 to Prof. **Gary Kachanoski**, Land Resource Science, for "Management of Water and Chemical Transport in Soil."

- \$16,000 to Prof. **Larry Peterson**, Botany, to study the "Effects of Mycorrhizae on Ginseng in Ontario."

- \$34,000 to Prof. **Ray McBride**, Land Resource Science, for "The Development of a Land Resource Database and Its Testing Through the Study of Soil Compaction for the Province of Ontario."

Prof. **Peter Krell**, Microbiology, was awarded \$92,400 over three years by NSERC and the Rohm & Haas Company for the project "Species and Age Specific-

ity and Mode of Action of Stable Ecdysteroid Analogues."

Prof. **Ken Leslie**, Population Medicine, received \$14,802 from Klenzade (a division of Ecolab Inc.) for "An Evaluation of the Efficacy of a Germicidal Post-Milking Teat Dip Containing 0.25-Per-Cent Iodine Germicide in a Glycerine/Emlolent Barrier Formulation."

The Atkinson Charitable Foundation awarded Prof. **Mary Konstantareas**, Psychology, \$8,400 for her work on "The Functioning of Autistic and Mentally Delayed Children."

The Canadian Diabetes Association awarded \$39,000 to Prof. **Hung Lee**, Environmental Biology, for the project "Yeast Xylose Reductases." The association awarded its Miles Education Research Award of \$5,000 to Prof. **Judy Sheeshka**, Family Studies, for "Understanding Dietary Change Among Type II Diabetics: An Application of the Transtheoretical Model."

Prof. **Lynn McDonald**, Sociology and Anthropology, received \$20,000 from Three Guineas Charitable Foundation for the "Collected Works of Florence Nightingale."

Profs. **Ross Nazar** and **Jane Robb**, Molecular Biology and Genetics, were awarded \$70,000 by the Ontario Fruit and Vegetable Growers Marketing Board for "Development of PCR-based Diagnostics for the Monitoring of Nematodes and Verticillium-Nematode Disease Complexed in Soil."

Procter & Gamble Inc. awarded Prof. **Lambert Otten**, Engineering, \$18,200 for an "Evaluation of Compost for the Production of Field Crops and for Home Garden Use." He also received \$40,000 from Procter & Gamble and the University Research Incentive Fund for his work on "Biofilter Design and Operation to Control Odors from Composting Facilities." □

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OVC student Jack Chubaty shows off the designs he created for his intramural hockey team's shirt and the OVC directory.
Photo - Kerith Waddington, University Communications

OVC athlete stays afloat with canoeing, cartooning

by Kerith Waddington
University Communications

Jack Chubaty is never up a creek without a paddle.

That's because Chubaty — a former Olympian in flatwater sprint canoeing, a canoe club coach and dragon boat racing participant — is rarely seen off water, let alone unarmed. Spotted on dry land only when at OVC, where he's in second year, he also takes on cartooning assignments in his spare time.

He says keeping busy helps him stay afloat.

"I enjoy the sense of accomplishment that comes from being involved," he says, "but I have a lot of fun along the way, too. For me, maintaining a sense of humor and balance is important."

Paddling since a young boy in Dartmouth, N.S., Chubaty joined the Burloak Canoe Club when his parents moved to Burlington in 1981. A member of the Canadian National Canoe Team at Seoul in 1988, Chubaty recalls the excitement of participating in the opening and closing ceremonies.

"Sports are an exercise in idealism," he says. "It was terrific to feel the sense of solidarity that occurred among people from every corner of the globe because of their pursuit of a common goal. I felt this is the way the world should be."

No longer canoeing competitively in flatwater sprints, Chubaty is nonetheless spending just as much time on the water. Now head canoe coach of the Burloak Canoe Club, he is also a member of the Canadian contingent of paddlers who have won the Toronto international dragon boat competition for the last five years and who placed third at the world dragon boat competition in Hong Kong last June.

He explains his fascination with Asia's number one sport, which is based on the story of a community that tried to save a drowning fish-

erman by beating the water with their paddles to scare off the dragons of the water.

"The whole Asian culture is based on pride, and this tradition was developed to extend that joy and bring honor to the country," he says. "I feel the same sense of pride as a participant."

After obtaining a bachelor of physical education at McMaster University in 1991 and a bachelor of education at the University of Ottawa in 1992, Chubaty turned down a teaching position for the chance to fulfil a childhood dream and come to OVC.

"I always dreamt of becoming a vet, but I put it on the backburner for years because of my canoeing career," he says. "Being at OVC is a very pleasant surprise for me — and one that I'm terribly happy about. I love sports and will always be active, but for now, being a student is a priority."

Cartooning is another passion of Chubaty's. He has done promotional work for the Canadian Canoe Association, designed the cover of the OVC directory and takes requests from friends, relatives and fellow students seeking to spice up presentations with his drawings. Although he does cartooning purely for pleasure, he found a practical application for his talent a few years ago.

"The one and only time I removed my hockey cage during a game in Burlington, I lost a few teeth, so I designed a logo and sold T-shirts to raise funds to replace them," he says. "The fellow who fired the puck was one of my first customers!"

Chubaty says he's not worried about the fact that he's already obtained — or is in the process of obtaining — his two lifelong dreams of going to the Olympics and becoming a vet.

"There will always be another goal," he says. "It's just a question of identifying it. It's what keeps me going." □

Third business conference Jan. 30

Ubiquity '96, the third annual student-run business conference at Guelph, runs Jan. 30 from 7 to 10 p.m. in War Memorial Hall.

Focusing on the theme "Striving in Tough Economic Times," the conference will feature guest speakers representing companies that have grown and prospered in recent times. There is no admission fee, and at least one company will be recruiting at the event.

Speakers are Board of Governors chair Doug Dodds, president and chief executive officer of Schneiders; Don Amos, executive vice-president, administration and human resources, of Magna International; Kathleen Redmond of Redmond and

Associates; and Claude Gauthier, assistant Ontario manager for Growmark.

The Ubiquity conferences were initiated as a means of raising the profile of business students and the business program at Guelph. By bringing high-level executives from successful businesses to campus, students are able to interact with the business world.

This year's conference was organized by students Janet Bumstead, Chuck Baresich and Matthew Spool with assistance from faculty adviser Prof. Ann Armstrong, HAFAs, and support from U of G's Business Studies Council. The main sponsors of the conference are Campbell's Soup Ltd., Growmark and Rhône Poulenc. □

RESEARCH

Mellow pigs mean laid-back bacon

by Anne Douglas
Office of Research

Soothing showers, refreshing drinks and time to relax . . . it sounds like a weekend at a resort. But a meat researcher says that such a routine — applied to pig management — can significantly improve pork quality.

Nather Aziz, a former research associate in the Department of Animal and Poultry Science and now a meat scientist at Maple Leaf Foods Inc., says that if the pork industry takes extra measures to keep its pigs relaxed before processing, the result will be pinker and juicier meat.

He is recommending ways to "chill out" stressed pigs.

"Pigs are sensitive animals, and when their environment is new or strange, it increases their stress levels," says Aziz. "If we put them in pens to rest, make sure water is showering down on them and have drinking water available to them after they arrive from farms, they relax."

Swine get stressed out from being loaded, transported, unloaded and then housed with unfamiliar pigs in processing plants. When the animals are upset, certain acids build up in their muscle tissue, breaking the bonds between protein and water molecules. That allows the water in the muscle to drain away, so the meat ends up being dry, tough and discolored.

"The quality of meat is signifi-

cantly increased when pigs are rested for three to six hours after being transported," Aziz says.

Finding new ways to keep pigs unstressed is only part of his job. He is training Maple Leaf employees and producers in various other ways to manage pigs so that meat is produced as efficiently as possible.

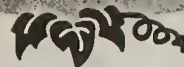
To help farmers, Aziz is testing the effects of different levels of protein in various crossbred pigs' diets. He'll determine which diet is best for each genetic type of pig, so farmers can feed weanlings a diet targeted to making them grow as quickly as possible

and keeping their meat at the highest quality. At the post-slaughter stage, he is looking at the effects of different cooling systems on pork quality.

"Companies can lose millions of dollars if the pork isn't the quality that consumers demand," he says.

Aziz's research with Maple Leaf builds on the work he conducted at U of G, in which he tested carcass quality, nutrition and growth performance. Guelph's Meat Technology Group provides facilities for some of his research with Maple Leaf. □

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NOTICES

Convocation parking

To accommodate guests attending convocation Feb. 1 and 2, lots P. 23/24 (Textiles Building) and P. 44 (Johnston Hall) will be reserved except for premium parking spaces. Alternative parking can be found in P.19, P.17 and P.7.

Honorary degrees

The next deadline for nominations for honorary degrees is Feb. 29. The degrees recognize outstanding contributions in the arts, humanities and the sciences, or honor people outstanding in professional or public life. For details, call the Senate Office at Ext. 6758.

JOBS

As of At Guelph deadline Jan. 19, the following opportunities were available to on-campus employees only:

Administrative Clerk, Support Services, Computing and Communications Services, temporary full time from Feb. 5 to Sept. 27, secondment opportunity. Salary: \$13.17 to \$14.71 an hour. Removal date: Jan. 24.

Agricultural Assistant/Cage Washer, Animal-Care Services, temporary full time from Feb. 1 to May 31. Salary: \$13.17 to \$14.71 an hour. □

Health teleconference

Dr. Richard Keeling, director of health services at the University of Wisconsin, will address health issues related to a campus community in a teleconference Feb. 13 from 12:45 to 4 p.m. at the Eccles Centre. Student health professionals, residence life staff, counselors, etc., are welcome. For more information, call Jose Robinson at Ext. 4333.

Chilled foods symposium

The Guelph Food Technology Centre is holding "A Technical and Marketing Symposium on Chilled and Refrigerated Foods" Feb. 20 and 21 at the International Plaza Hotel and Conference Centre in Toronto. Cost is \$422.65 before Feb. 1, \$476.15 after. Cost for one day is \$283.55. To register, call 767-5036.

Celtic concert

The Irish Descendants perform Feb. 3 at 7 p.m. at War Memorial Hall. Tickets are available at the UC box office.

Theatre at the Arboretum

The Theatre Downstairs presents the comedy *The Hand that Cradles the Rock* Feb. 17 and 24, March 2, 16, 23 and 30 and April 13, 20 and 27 at the Arboretum Centre. Doors open at 6 p.m., buffet is at 6:30 p.m. and showtime is

8 p.m. Tickets are \$39 and are available at the UC box office.

Historically speaking

The Guelph Historical Society presents a talk by Don Coulman on the "Early Industries of Guelph" Feb. 6 at 8 p.m. at St. Andrew's Church, 161 Norfolk St.

Fireside jazz

The Elora Festival's fireside jazz series at the Elora Mill presents Hagood Hardy on vibes, Mark Crawford on guitar and Rick Homme on bass Feb. 9 at 9 p.m. and Feb. 10 at 2 p.m. The weekend jazz series continues until April 19 with performers such as Peter Appleyard and Jim Galloway. For more information, call 846-5356.

Star Trek exhibit

Guelph Museums and the Guelph Star Trek Club present the exhibit "The Star Trek Phenomenon" until March 31 at the Guelph Civic Museum. Grand opening is Jan. 28 from 2 to 4 p.m.

On stage

The Elora Community Theatre presents Tennessee Williams' *Cat on a Hot Tin Roof* at the Theatre on the Grand in Fergus Feb. 9 to 11, 16 to 17 and 18 to 24. Showtime is 8 p.m., with two matinees available. Tickets are \$10 and are available at Pond's Camera. For more information, call 846-5567.

Getting fit

The Athletics Centre offers a lifestyle and fitness program to permanent full-time staff members for \$43.25 a semester. This includes access to step fit, hi-low impact, aquafit classes, skate fit and the walking/skiing group. For more information, call Pat Richards at Ext. 2742.

Show & tell

An OVC Multimedia Show & Tell for Learning Technologies will run Jan. 31 from 11 a.m. to 3 p.m. in the OVC Learning Centre cafeteria. There will be displays of video conferencing technology, interactive multimedia course-

ware, on-line journal abstracts and OVCNET resources.

And the winner is...

Prof. Bernard Grodzinski, Horticultural Science, is the winner of the final United Way raffle for dinner for two at the Aberfoyle Mill and bed and breakfast at Esperanza Farms.

Teaching in China

Prof. K. C. Tan, Geography, has information about opportunities for English-language teaching in China. Interested graduate students and senior undergraduates are invited to meet with him Feb. 1 at 4:10 p.m. in Room 124 of the Hutt Building.

Couples sought

Family studies PhD student Rachel Berman is doing her thesis on intimacy and is looking for common-law/married couples to talk with for a total of two hours. Any interested couples can leave a message with her supervisor, Prof. Joan Norris, at Ext. 3782.

CLASSIFIEDS

FOR SALE

Limited-edition prints by Laura Berry and Trisha Romance, 822-3129.

Futon sofa bed, apartment-sized washing machine, dining room table and four chairs, excellent condition, Caroline, Ext. 4472.

1972 Alberg 22 sailboat, lying at Lion's Head, fully equipped, ready for single-handed sailing, includes five sails, four-horsepower outboard motor, two anchors, excellent condition, Ext. 3675 or 905-659-7634 evenings.

Double pine bed, sturdy crate-style, includes underlaid drawers, excellent condition, Maxina, 763-1418.

FOR SALE

1986 Hyundai Pony, Corey, 837-1596.

Three-bedroom brick bungalow on quiet cul-de-sac, walk to schools, University and downtown, hardwood floors, high-efficiency gas heat, 767-9872.

FOR RENT

Furnished three-bedroom home, hardwood floors, fireplaces, two sunrooms, deck, porch, large partly fenced yard, laundry, parking, near Elora Gorge and quarry, available March to July 1996, \$700 a month inclusive, 787-0609.

FOR RENT

Large furnished upstairs room in farmhouse, 15-minute drive from campus, available Feb. 1, non-smokers, pets welcome, \$285 a month inclusive, Wendy, Ext. 8798 or 763-4149.

WANTED

Used NordicTrack, cross-country ski model, Ext. 3438 or 763-7430.

Two-bedroom apartment or townhouse in central or south end of Guelph for March 1, working couple, 821-6189.

Three- or four-bedroom house or townhouse to rent from January to August 1996 for visiting family of six from Belgium, Ext. 4936.

AVAILABLE

Pet sitting and pet nursing care for large and small animals by a veterinarian, security-cleared individual, Janis, 766-0634.

Care for your dog in my home while you travel, references available, Cobi, Ext. 6010 or 836-8086.

New mom and early childhood educator will provide day care in your home for two children, six years' experience, Chandra, 837-8536.

Word processing/typing of all documents, laser printed and prepared quickly, Tracey, 837-4954.

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CALENDAR

THURSDAY, Jan. 25

Concert - Violinist Youri Zaidenberg and pianist Sofia Moshevich perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Cultural Studies Colloquium - "Communities and Cultural Identities" is the focus of a round-table discussion at 2 p.m. in the University Club.

Physics Colloquium - C.W.F. Everitt of Stanford University will discuss "Testing Einstein in Space: A Marriage of Physics and Technology" at 3:30 p.m. in MacNaughton 145. A reception will follow in Room 153.

Theatre - A performance of *Letter from Wingfield Farm* by Dan Needles begins at 8 p.m. in War Memorial Hall. Tickets are available at the UC box office.

Readings - To mark the launch of the newest edition of *Carousel* magazine, Leon Rooke, Terry Griggs, Gil Adamson and Russell Smith read from their works at 8:30 p.m. in the University Club. Cost is \$3.

Panel Discussion - The U of G Faculty Association is hosting a discussion of "Policies, Policies, Policies: How Do They Apply to You?" for faculty and librarians from 2 to 4 p.m. in UC 103.

FRIDAY, Jan. 26

Human Biology/Nutritional Sciences Seminar - "Do Beta-Adrenoceptors Play a Role in Skeletal Muscle Adaptations to Exercise?" is the topic of Louise Beliveau of the University of Montreal at 11:10 a.m. in Animal Science/Nutrition 141.

Lecture - OPIRG-Guelph and the Wellington-Dufferin-Guelph Health Unit present Rod MacCrae, director of the Toronto Food Policy Council, discussing "Strategies to Integrate Our Food and Health Systems" at noon in UC 103.

History Lecture - "The Host, the Law and the Ambiguous Space of Medieval London Taverns" is the topic of Barbara Hanawalt of the University of Minnesota at 2 p.m. in MacKinnon 132.

Evolution and Systematics Seminar - Brian Charlesworth of the University of Chicago explains "The Effects of Deleterious Mutations on Molecular Evolution and Variation" at 3:10 p.m. in Axelrod 259.

Concert - Ernie Tollar and Band perform "Mecca-World Beat/Jazz" at 8 p.m. at the Macdonald Stewart Art Centre. Admission is \$10 general, \$6 for students and seniors. For ticket information, call the Department of Music at Ext. 3127.

WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □

SATURDAY, Jan. 27

College of Arts Colloquium - "Constructions of Youth" is the theme of talks running from 10:30 a.m. to 4 p.m. in Room 114 of the MacKinnon Building. Plenary speaker Barbara Hanawalt of the University of Minnesota discusses "Narratives of a Nurturing Culture: Parents and Neighbors in Medieval England" at 2:30 p.m.

Toxicology Symposium - The Toxicology Students' Association presents its 10th annual symposium on the theme "Regulatory Toxicology in the Next Millennium." For ticket information, call 824-6270 or the UC box office at Ext. 4368.

TUESDAY, Jan. 30

Food Science Seminar - "Genetically Engineered Wine Yeast" is the topic of Prof. Ron Sudden at noon in Food Science 202.

Chemistry and Biochemistry Seminar - Willem Seibrand examines "General Aspects of Hydrogen Tunnelling" at 2:10 p.m. in MacNaughton 222.

Cultural Studies Colloquium - Prof. Margaret Priest, Fine Art, discusses "The Monument to Construction Workers" at 3 p.m. in the University Club. The talk will be followed by a round-table discussion of "The Cultural Work of Public Art."

Physics Seminar - "Astronomy Education: Present and Future" is the focus of University of Toronto astronomer John Percy at 4 p.m. in MacNaughton 113.

WEDNESDAY, Jan. 31

Third Age Learning - The lecture series for retired people continues with Prof. Neal Stoskopf, Crop Science, discussing "Perspectives on Chinese Issues Re-

lated to Agriculture" at 10 a.m. and retired English professor Percy Smith examining "The Simpleton of the Unexpected Isles by George Bernard Shaw" at 1:30 p.m. Lectures are at the Arboretum Centre.

Cultural Studies Colloquium - "What's in a Name?: Critical Misreadings, Conservative Values and Rereading Victim Art" is the topic of art critic and curator Tom Folland at 3:30 p.m. at the Macdonald Stewart Art Centre.

THURSDAY, Feb. 1

Concert - Violist Henry Janzen and pianist Alison MacNeill perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Cultural Studies Lecture - Jacques Pelletier of the University of Quebec describes the "Situation de l'intellectuel aujourd'hui" at 4 p.m. in MacKinnon 101.

FRIDAY, Feb. 2

Human Biology/Nutritional Sciences Seminar - Mark Friedman of the Monnell Chemical Senses Centre discusses "Control of Energy Intake by Energy Metabolism" at 11:10 a.m. in Animal Science/Nutrition 141.

MONDAY, Feb. 5

Cultural Studies Lecture - "Deciphering the Cultural Landscape" is the topic of College of Social Science dean David Knight at 2 p.m. at the University Club.

TUESDAY, Feb. 6

Cultural Studies Colloquium - A graduate student forum on "The Politics of Representation" begins at 2 p.m. in the University Club.

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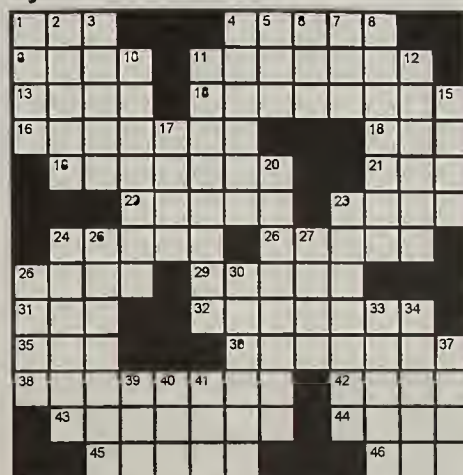


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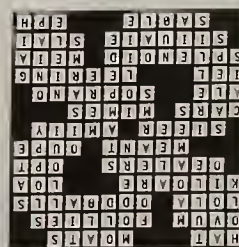


ACROSS

- Derby
- Castle trenches
- Egg
- Theater revue
- Intestine parts
- Eccentric ones
- TV doctor
- Mauna _____
- Card game shufflers
- Decide
- Intended
- Homswoggle
- Take the helm
- Mutual good will
- Flivvers
- Acts without using words
- Porter
- High voice
- Aviv
- Ogling
- Very good
- After prefix
- Posit
- Beat it!
- Nova Scotia Island
- N.T. bk.

DOWN

- Rhine wine
- Steer clear of
- Veil material
- Not ancient
- Elderly
- Linen vestment
- Juana
- S.R.O
- performance
- Brothel heads
- Una locations
- Careless
- Satisfy one's appetite
- Away from the wind
- Annual Calgary event
- Puts out of combat
- Orchid tubers
- Vine support
- Being nothing but
- Cradle" (Vonnegut)
- Cordierite
- Brother's daughter
- Available or ready
- Goliath's home
- Third vowel
- Protuberance
- Split pea



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COMMENTARY

Learner centredness and the learning objectives: A response

by Prof. Sandy Middleton
Department of Zoology

In her commentary in *At Guelph* Nov. 19, Prof. Constance Rooke made an effort to clarify the meaning of learner centredness, its link to the University's learning objectives and its implications for U of G. Although her article was of academic interest, she offered few tangible suggestions as to how we might move this campus towards becoming more learner-centred. In addition, many of her ideas seemed out of touch with reality.

Over the years, the number of professional programs offered by universities has increased. As a result, I believe that much of what is now perceived as education is directed towards meeting the criteria for professional accreditation. In many cases, qualification for the degree requires a set of utilitarian skills and competencies that offer a very different type of intellectual challenge than those of more traditional arts and science disciplines.

Accompanying the appearance of the new professional programs has been a change in the student agenda. Most would acknowledge that our students have become more consumer-oriented than ever. Increasingly, they are demanding an education that will equip them for the job market.

Clamor for training

A new tension exists in the University. On one hand, it clings nostalgically to educational values of the past, with their emphases on intellectual challenge and personal fulfilment. On the other, students clamor for training that will equip them for a future job. Unless we can collectively close the gap between these two extremes, I suspect all our efforts to achieve learner centredness will be to no avail. So how do I suggest we address the issue?

First, we must acknowledge the new realities that are shaping tertiary education. With our dependence on public funding, universities can no longer ignore society's demands. But we must not simply and uncritically acquiesce to them. If we are convinced that learning remains the fundamental goal of university education, we must be prepared to fight for it and find new ways to retain that focus in our programs. Our curricula must be designed so that, irrespective of the specialization, all students are engaged from first semester through to graduation with a required number of courses that are intellectually stimulating and demanding.

This does not mean that skills/content courses have no place in the curriculum. I am suggesting, however, that we must make a genuine commitment to the University's learning objectives, must continuously remind students of that commitment and must ensure that enough suitable courses are built into every program to give students the greatest likelihood of achieving the goals of the learning objectives.

This cannot be left to chance. If it is, our commitment to learning will appear meaningless, and the courses that engage students in intellectually rigorous ways will be seen as irrelevant anomalies that are open to student criticism

and, ultimately, rejection.

Second, if U of G is committed to developing experiential learning and the research/teaching link, it must avoid ill-conceived cost-cutting decisions. In the sciences, for example, there is mounting pressure on many courses to drop the "costly" laboratory component. On the surface, this may seem like an obvious solution to the financial squeeze, but how does it reconcile with our avowed aims as a university?

Surely there must be an integrity to any curriculum. To jettison components of that curriculum without serious consideration of the consequences is irresponsible. I suggest that the time has come for all program committees to re-define their goals for undergraduate education and, if necessary, to redesign the curriculum to meet these goals (in this regard, and despite criticism, the B.Sc. (Agr.) program committee has shown leadership with Vision '95).

The temptation is to shy away from the latter, particularly if it is going to disrupt the comfortable routines of individuals, departments and colleges. But I am convinced that unless we are prepared to revise our curricula in such a way that we can safeguard experiential learning and foster the research/teaching link, our declared support of these concepts will be seen as nothing more than window dressing.

Third, we must search for ways to change the intensely competitive atmosphere that prevails in the University. That competition is reflected in all we do. For this discussion, however, I will focus

only on the role of student marks.

The University lives by marks. We admit students on the basis of marks, we assess them on the basis of marks (though some of us would prefer the freedom to use a less precise, more flexible system), we limit their access to programs on the basis of marks, and we limit their postgraduate opportunities on the basis of marks. In addition, our public relations materials boast of our ability to attract top students, where the benchmark for "top" is the mark. Thus, the University itself feeds the pernicious marks chase that students equate with learning.

I suggest that genuine learning is a risky business. Students must be allowed to stretch their wings, to experiment with their ideas and to risk failure without penalty. Our current assessment procedures do not allow for this. They are far from being learner-centred. I therefore offer the following for consideration.

If we are going to encourage real learning, we must rethink our assessment procedures. I find it ironic that our calendar refers to a refined grading system with 13 degrees of differentiation, yet that calendar can only provide standards for a letter-grade system with five shades of differentiation. Is it any wonder, then, that students argue over a single percentage point when our assessment procedures suggest that, for example, 79 per cent (B+) is indeed different from 80 per cent (A-)?

Adoption of a more flexible University-wide system is needed. The commonly voiced opinion that such a change at

Guelph would be incompatible with the university system as a whole is a poor excuse for inaction. Innovative and creative thinking is urgently needed if we are going to break away from the marks chase with all its negative effects on true learning.

Simultaneously, if we are committed to being learner-centred, we must change the pressured environment we all work in. The 12-week semester system, with its full-time norm of five courses, may be efficient, but I don't believe it allows students time for the reflection and debate that is part of genuine learning. If students are to be engaged in their learning, they need interactive feedback. Because of the shortness of our semester, there is limited time to provide much in the way of meaningful interaction and feedback before an assessment must be made.

Students dislike the idea of a single final examination or term paper as the only means of assessment, although these tools may be the most desirable and effective way to assess student learning while removing the stress induced by multiple assessments. As a result, most of us are coerced into using frequent quizzes, numerous small assignments and mid-term exams, each with its assigned mark.

Students may be satisfied by this approach, but they become unwittingly trapped on the semester treadmill. Learning becomes disrupted as they turn their attention piecemeal towards those tasks with the greatest urgency. They quickly learn how to cut corners

to maximize their chances of success, success being equated with the mark gained.

Add to this the ridiculously short final exam period, in which it is not uncommon for students to face three finals in 24 hours. Can we wonder that students are skeptical of our commitment to learner centredness and our desire to foster love of learning?

Finally, if we are committed to the education of students, as opposed to the more shallow concept of training, and if we are convinced that student-motivated learning is an integral part of sound education, I fear we are going to be swimming against the societal tide and the demands of many of our students. I agree with Rooke that "if students do not share this view — if they are not inspired as well as assisted to make it real — the project will fail." We have a mighty task on our hands.

But if we believe in the value of what universities have to offer, we must not be daunted. To achieve our goals, we need courage, fortitude and, above all, mutual support. We can neither return to the comfortable university of the past, nor maintain the status quo. We must adapt to the changing realities. We have the talents to bring about the effective curricular changes that will meet the emerging needs of society, while retaining a focus on the learner.

The Strategic-Planning Commission's recommendations, imperfect though they may be, give us an opportunity to move forward. Let us seize the opportunity while we still have the chance.

Moderation at a medium-sized university

by Prof. John Roff
Department of Zoology

I must sympathize with Gordon Bowman's views in the Dec. 13 *At Guelph* concerning U of G's mission statement, which was endorsed by Senate. As a member of the Strategic-Planning Commission (SPC), I had similar difficulties and proposed a somewhat different statement. Unfortunately, my SPC colleagues seemed to think its only virtue was that it offended everyone equally!

I offer it here in the hope that at least Bowman may appreciate its merits. If he and I can carry the day, we may yet see a mission statement of true scholarship worthy of U of G.

A mis-statement for U of G

The University of Guelph is a medium-sized institution, located in a medium-sized city in Ontario, the heartland of Canada's medium-sized economy. Some universities are too big and some are too small, but we offer all the intellectual and cultural vibrancy of a "just right" university.

We are warm and cuddly. We are "people people." We are a comprehensible university. Although we are an average-sized university, all our programs are above average (and we have the self-evaluations to prove it).

We have more buildings than we need, but just in case, we are constructing more medium-sized concrete towers (it's illegal to import ivory).

We are dedicated to our preservation. We are all here because we are not all there. We should be committed. Our core values are free parking and tenure for the faculty and just enough beer and safe sex for the students.

Freedom of expression, especially the inalienable right to defend the status quo, is the keystone of our academic life. We believe in a spirit of moderate trust and openness, except when we try to keep things confidential (like SPC and B of G).

U of G distracts students, faculty and staff. Moderate standards are maintained by program preview (including immeasurable outcomes) and regular "pay and performance" devaluation (concluding in early retirement).

The University confabulates in its own community (except at VPAC and Senate) and concatenates with neighboring educational institutions (of non-threatening medium size) and with small countries around our medium-sized planet. This partial-hearted commitment to collaboration also extends to moderate interactions with medium-sized businesses and governments (but only if they give us money).

U of G has a middle-of-the-(just repaired)-road educational philosophy, which is research-defensive and learner-expensive. We affirm the elusive and Elysian relationship between teaching and scholarship. We are committed to providing an educative envi-

ronment, especially for the intellectually challenged, with whom we identify. We encourage diversity of people, culture and ideas (but not too vocally). We are almost committed to internationalism (if it doesn't cost anything), but we are not sure where.

We are moderately committed to standards of education (at least in the medium term), and we are guided by these pedestrian principles: numerology and obliteracy (sums for all and all for SERP); sense of historical development (especially of the middle ages); global periphrasis and personal devocalization; out-of-body experiences and out-of-town expenses; demoralizing surveys; the Great Canadian Compromise; sympathy for small things; how deep is the ocean, how high is the sky; self-evaluation (external evaluation is too expensive); depreciation of thought; love of yawning; Trivial Pursuit (especially for the administration); and the right to harm bears.

Our undergraduate programs in arts, humanities, social sciences and other things (oh, yes, biological sciences) form the indispensable foundations of further study. (This is good because you can't get a job after an undergraduate degree, and we need more graduate students!)

These programs and our medium strengths in some disciplines (but not forgetting our medium strengths in other disciplines) and in agriculture and

veterinary medicine (which we are obliged by law to mention) combine to make U of G one of North America's leading medium-sized moderately comprehensive and averagely excellent centres of everything.

We almost have commitments to some interdisciplinary studies and to some professional and applied programs, but we can't tell you what they are (the people in the ones we don't mention would be upset.) Several of our specializations, such as farm tractors, yogurt making and an Italian studies department of one, are medium unique in the province.

We attract high school graduates because they are unemployable and their parents want them off the streets.

Responding to the challenges of life is a dodgy business. In accord with this fundamental philosophy, we encourage the compliant and self-reliant learner, and we offer medium-distance education opportunities (i.e., you can look after yourself, our teaching is done by sessionals and we can get on with our research). We provide medium-good leaning support services (mainly in our bars).

The University of Guelph is paranoid about public scrutiny (that's why it keeps 12 sets of financial books), especially by the medium-sized people and government of Ontario, who unfortunately regard their universities as discountable. □

AT GUELPH

40th
Year

Volume 40 No. 4

University of Guelph, Guelph, Ontario

January 31, 1996

AT A GLANCE

Congratulations, grads! More than 800 students are graduating at winter convocation ceremonies this week. *At Guelph* welcomes the grads and their families to campus as they celebrate this important occasion.

World Cup win. Veronica Brenner, a U of G human kinetics student and member of the Canadian national freestyle ski team, is leading the World Cup freestyle skiing season. She won her fourth gold medal in aerials Jan. 21. There will be 13 World Cup competitions before the season ends.

A boost for students. The first round of Student Life Enhancement Fund grants will enhance the cultural, social, recreational and educational life of U of G students ... *page 3*

Collaboration counts. Another U of G research project has received funding support from the Natural Sciences and Research Council's collaborative grants competition ... *page 3*

A golden opportunity. The Department of Land Resource Science reflects on its past and looks to the future as it celebrates 50 years on campus ... *page 5*

The commentary page. Pennsylvania pathology professor Leon Saunders takes a historical look at veterinary pathology and offers his perspective on the planned merger of Guelph's departments of Pathology and Veterinary Microbiology and Immunology ... *page 8*

Thought for the week

Counting time is not so important as making time count.

Chinese proverb



Top of the heap. Winterfest '96, a student-run design conference and celebration of winter by landscape architecture students, was cause for exertion Jan. 25 during the annual snow sculpture competition. Above: Mustering shovels, from left, are conference co-ordinator Tanya Olsen, Jenn Lockhart, Kristine Bouw, Elana Horowitz and Dave White. Right: Motoring along in the fruits of their labors are, from left, Scott Redding, Bouw, Lockhart, White and Adam Neilson. Photos - Kerith Waddington, University Communications



Human Rights and Equity Office officially opens

The creation of a Human Rights and Equity Office at U of G is one more step in Canada's historical pursuit of justice nationally and internationally, says Ontario Human Rights Commissioner Rosemary Brown, a 1990 recipient of an honorary degree from Guelph.

Speaking following the official opening of the Human Rights and Equity Office in Fielding House Jan. 23, Brown said the office is a leap of faith for which U of G should be commended.

"By investing in the pursuit and defence of human rights, the University of Guelph is beginning in its small corner to do here at home what we as a nation should be doing abroad," she said. "What is begun here will move out into the wider canvas of the country and the world. This kind of commitment is indispensable in the quest for and protection of human rights."

Brown lamented the frequent separation of economic trade and human rights as countries compete against each other for a place in growing world markets, and expressed fear that economic development is devaluing basic hu-

man rights in the name of corporate profits. She noted that the recent trade missions by Team Canada to India and China resulted in billions of dollars in trade deals, but did not address the plight of millions of oppressed people in each country.

"Canada is sleepwalking towards a subtle and potentially devastating conceptual attack on the indivisibility, universality and inalienability of human rights," she said.

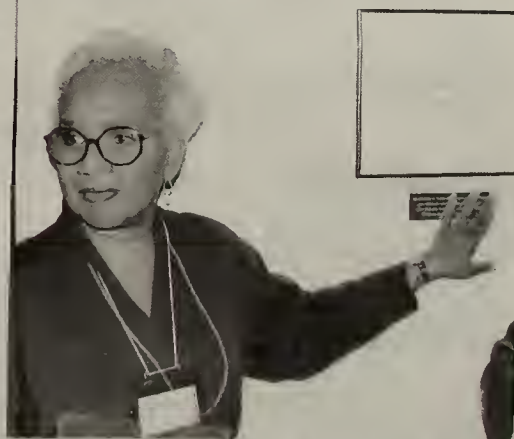
Although acknowledging that everyone has freedoms to cherish and defend, Brown stressed that these do not set people apart in special-interest groups. Rather, it is the "genius of Canada" that draws different cultures together to enjoy basic freedoms. She praised the University's opening of the office as an act of foresight and courage.

About 50 students protested the opening of the office and the hiring process for the director of human rights and equity. The demonstrators claimed that the process leading to the director's appointment shut them out and was therefore undemocratic and

suspect. They questioned the University's commitment to human rights and called for the director's resignation.

President Mordechai Rozanski responded to the protestors by repeating his previous public comments that the search process was

open, thorough and fair. He assured the students that advancing human rights and equity is a key objective of U of G and asked them to work with the University and director Ralph Agard to promote human rights and equity for everyone on campus. □



Rosemary Brown helps open the Human Rights and Equity Office in Fielding House. Photo - Kerith Waddington, University Communications

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LETTERS

Don't rob animals of dignity

I wish to comment on the article "Mellow Pigs Mean Laid-Back Bacon" in the Jan. 24 issue of *At Guelph*.

Where do I start? What can I possibly say that won't cause those I'm addressing to dismiss me out of hand for having some radical (oh, no!) perspective? I recognize the tall, thick wall that

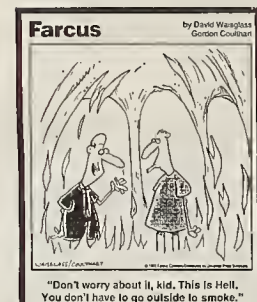
separates my world view from that of Nather Aziz and millions of others. I realize that to many, "animal rights" is just another issue.

But can Aziz and others really be that insensitive to the strange, unnatural notion of discussing animals as commodities? Doing so is a denial of the value of life. Animal and poultry science . . . meat technology. It all reeks of the same denial. Animals are not inanimate, unfeeling objects whose tissues should be tested for "quality" through detached research.

Aziz recognized the concept of a pig's capacity to become stressed by its environment, but the only implication it seems to carry for him is the moisture, texture and color of its flesh when it is already dead.

It is one thing to be carnivorous/omnivorous. To rob animals of the dignity of being alive is something completely different. If we can't all agree on our specific moralities, can we not at least agree on — and act in accordance with — values that most everyone finds important? Can we not act with respect and compassion for all those we encounter . . . even those whose lives are taken? Can we not at least have respect for them while they're still alive?

Prof. Michael Ruse
Department of Philosophy



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GRAD NEWS

The final oral examination of PhD candidate Shirley Furesz, Veterinary Microbiology and Immunology, is Feb. 9 at 9 a.m. in Room 101 of VML. The thesis is "Antibody and Cell-Mediated Immunity of *Actinobacillus pleuropneumoniae*-Infected and Bacterin-Vaccinated Pigs." Her adviser is Prof. Bonnie Mallard.

The final oral examination of John Papp, a PhD candidate in the Department of Veterinary Microbiology and Immunology, is Feb. 14. The presentation is at 9 a.m. in Room 1713 of the OVC Learning Centre, followed by the defence in Room 101 of VML. The thesis is "Pathogenesis and Immune Response in *Chlamydia psittaci* Infection in Sheep." His adviser is Prof. Pat Shewen.

Interested members of the University Community are invited to attend. □



Exempt Group signs memo. A new memorandum of agreement was signed between the University and the Exempt Group Jan. 23. In front are president Mordechai Rozanski and Julie Hutchins, chair of the Exempt Group. Behind, from left, are Bruce Anderson, Doug Lane, Andre Auger, Toni Pellizzari, Dave Bamey, Elaine King, Tom Parker and Pat Louis. Photo - Kerith Waddington, University Communications

GUARD meetings planned

Special information meetings for current and retired U of G personnel will be held in February to discuss GUARD Inc., the University's alumni-based company launched to convert inventions owned by U of G into businesses.

The schedule of meetings is as follows:

- CPES — Feb. 6, 3 p.m., University Centre 442;
- FACS — Feb. 7, 2 p.m., UC 442;
- OAC — Feb. 8, 9 a.m., UC 442;
- OVC — Feb. 8, 1 p.m., OVC 1715;
- College of Arts, CSS, University support personnel — Feb. 12, 10 a.m., UC 103; and
- CBS — Feb. 12, 1 p.m., UC 103.

- For more information, call Stan Young at Ext. 2593 or Ron Moses at Ext. 6929. □

Create home pages on Web

Students, staff and faculty can now produce personal home pages on the World Wide Web and have them linked to U of G's home page. A general computer ID is required. Your personal home page will be produced within the disk space allocated to you with your general computer account.

For instructions on publishing

your personal home page, click on "how to publish on Web at Guelph," located near the bottom of the U of G home page. After you register and follow the instructions, your page will be automatically included in an alphabetical list of U of G personal home pages. □

B of G seeks external nominees

Board of Governors is seeking nominations for external members for a three-year term beginning July 1.

The board is a policy-making body mandated to oversee the University's business, finance, property and personnel matters. Board bylaws prohibit members from receiving remuneration for service as a governor. The board is particularly interested in ex-

panding its list of qualified candidates to include external members from designated groups.

Send nominations, marked confidential, to the Board of Governors Membership Committee, Board Secretariat, Level 4, University Centre. Only successful candidates will be contacted.

Nominations will be kept active for three years from the date of submission. □

PEOPLE

Prof. Anne Croy, Biomedical Sciences, has been invited to serve as a member of the human embryology and development study section of the National Institutes of Health's research grant division. Her term runs until June 30, 1999.

Wahid Basri, a 1993 PhD graduate of the Department of Environmental Biology, and his supervisor, Prof. Peter Kevan, received a prize for the best research paper published by scientists at the Palm Oil Research Institute of Malaysia in 1995. Their paper was on the life history of the oil palm bagworm, a defoliating pest insect of oil palms in Malaysia.

Hockey Gryphons Ron Solomon, Chris Clancy, Rob Thorpe and Dave Anderson are featured on the cover of the January issue of *OHL News*. □

Appointments

John Klironomos of San Diego State University has been appointed an assistant professor in the Department of Botany effective June 1996.

Devakanand Mangroo of the Massachusetts Institute of Technology will join the Department of Chemistry and Biochemistry as an assistant professor May 1.

David Sparling has joined the Department of Agricultural Economics and Business as an assistant professor. □

AT GUELPH is published by the University of Guelph every Wednesday except during December, July and August, when a reduced schedule applies. *At Guelph* is guided by an editorial policy and an editorial advisory board. The policy is available on request at Ext. 3864.

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph top stories can be accessed on World Wide Web <http://www.uoguelph.ca/atguelph>. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, fax: 519-824-7962, e-mail webster@exec.admin.uoguelph.ca. Office hours: 8:30 a.m. to 4:45 p.m.

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Student life to improve in first round of grants

by Kerith Waddington
University Communications

The cultural, social, recreational and educational life of U of G students is being enhanced.

That's because the first round of the Student Life Enhancement Fund grants — a portion of the student support services (SSS) fee that students accepted via referendum in the winter of 1995 — has been distributed by the SSS fee committee.

Fourteen accredited student groups, student governments and University units have received a total of about \$40,000 to cover the costs of staff, equipment, supplies and other operating expenses for new or enhanced services.

Committee chair Prof. Iain Campbell, provost and vice-president (academic), praises the level of commitment he saw by all involved.

"The dedication shown by so many different groups to improving various aspects of student life on campus came through in the quality of the applications," he says, "and I feel the committee did a very conscientious job in reviewing them. Because of the work of the applicants and the committee, the relatively small amount of money at our disposal is going to have a very valuable impact."

Of the 44 proposals received by the committee, the majority of whose members are students, the following received funding:

- the Department of Music (which has five performing groups and a noon concert series);
- Collaborative International Development Studies (which hosts "Our World," a noon-hour seminar series on global issues);
- the Centre for Community Leadership and Involvement Programs (which connects students with volunteer opportunities on campus);
- World University Service of Canada (which hosts an international development symposium series);
- the FACS Student Administrative Council (which provides communication between FACS students and administration);
- Men Against Violence Collective (an educational anti-oppression group);
- the Environmental Science Symposium Committee (which is holding a "State of the Environment" symposium this year);
- the Department of Rural Extension Studies (Student World Wide Web, etc., which enhances individual student use of the Web's publishing and communication tools);
- Career Services (which is receiving support for two projects — job shadowing and computerized assistance, a career-guidance program and information system);
- the Astronomy Club (which meets weekly in the MacNaughton observatory);
- the Central Student Association (which represents undergraduate students on campus and plans to convert second-floor University Centre space

into club offices);

- the Photo Arts Club (which will install a new ventilation system);
- the Connection Desk (an information and referral service); and
- Curtain Call Productions (which provides student performance opportunities).

Successful grant applicants were required to submit an outline of goals, identify the segment of the student population expected to benefit, describe how goals will be evaluated, indicate how the initiative will be maintained after the period of enhancement funding and include a budget.

Undergraduate student Phil Robinson, co-ordinator of the campus-based Men Against Violence (MAV), says the funding will help the group attain a stronger presence on campus.

"Lack of funding has to date been an impediment to MAV being as active on campus as we have wished to be," he says. "With this grant, the group will be able to reach out to the community with its anti-oppression message and provide more support for men trying to take their first steps toward building a safer and more inclusive environment."

Workshops and discussion groups, more advertising, the acquisition of supplies for the resource centre and guest speakers are all enhancement objectives of the group, which has run completely on its own fund-raising efforts in the past.

Prof. Nora Cebotarev, director of the CIDS program, believes the "Our World" seminar series has complemented the education of students by presenting them with a view of the first-hand experience of others in various parts of the world. The series is now held biweekly due to cutbacks, but Cebotarev says the grant will help CIDS host a forum on professional issues and continue to support U of G's mandate of internationalization with frequent noon-hour talks.

Graduate student and SSS committee member Lee Acham believes the fund will allow eligible student groups and University units to continue to make valuable contributions to the extracurricular activities of students.

By moving quickly to ensure grant implementation in this fiscal year, the committee's hard work guarantees an immediate and positive impact will be made on student life, says Brian Sullivan, associate vice-president (student affairs).

"The rapid rate at which consensus was reached within the committee is a tribute to the quality of the membership, the process and the proposals themselves," he says. "I have no doubt that this fund will have a positive and lasting impact on student life at Guelph."

Another \$40,000 will be available from fees anticipated in 1996/97 and will be disbursed May 1, 1996. Completed applications must be submitted by Feb. 19 to the SSS fee committee, c/o the Office of the Provost, Level 4, University Centre. Application information is available from the CSA, the Graduate Students' Association and Student Affairs. □



Looking ahead. U of G was well represented last week at Outlook '96, an annual conference hosted by the Chamber of Commerce for local business people from a variety of sectors to meet and discuss their predictions for 1996. On hand at the Holiday Inn were, from left, president Mordechai Rozanski, Mayor Joe Young, Bruce Heyland, president of Hammerson Canada, and John Mabley, U of G's new vice-president (University affairs and development). Photo - Kerith Waddington, University Communications

Collaborative research gets a boost

by Jo-ella van Duren
Office of Research

A late addition has boosted U of G researchers' already high success rate in the recent Natural Sciences and Engineering Research Council's collaborative grants competition.

In addition to the four principle Guelph researchers awarded grants (see *At Guelph*, Dec. 6), Prof. Arthur Hilliker, Molecular Biology and Genetics, is involved in a project with Ian

Meinertzhagen of Dalhousie University, Harold Atwood of the University of Toronto and Marla Sokolowski of York University. Together, they hope to learn more about the human nervous system by looking at fruit-fly larvae.

Fruit flies are a principle organism for genetic research because their genetic makeup can be easily manipulated and their nervous system has many of the same proteins and genes as those found in humans. The insects can therefore provide a simple model system for the study of humans.

Previous research, for example, found that fruit flies have the gene that causes a certain type of Alzheimer's disease in humans. Hilliker's team is using the flies to discover more about the ge-

netic inner workings of the insect's nervous system and how it may relate to our own.

Hilliker will contribute to the project by providing specific genetically altered strains of fruit flies. Sokolowski will then study how the larvae behave as a result of their altered genes. Meanwhile, Atwood will look at whether or not the new genes change the flies' nerve cells or the way they function. Meinertzhagen will create a three-dimensional model of the flies' nervous system, which will further elucidate the effects of the mutations.

Hilliker believes the collaborative research should yield results that will help achieve a better understanding of the human nervous system. □

More than 800 set to graduate

More than 800 students will graduate and three academics will be honored at winter convocation ceremonies Feb. 1 and 2.

The University will bestow an honorary doctorate of science on botanist Barry Tomlinson and the title of University professor emeritus on retired French studies professor Leonard Adams. The annual John Bell Award for teaching excellence will be presented to Prof. Gordon Lange, Chemistry and Biochemistry.

Tomlinson, an internationally known botanist, will address students graduating from CBS and OVC Feb. 2 at the 2:30 p.m. ceremony. Adams, former chair of the Department of French Studies, will address students graduating from the College of Arts and FACS Feb. 1 at the 10 a.m. ceremony. Lange, who has been a faculty member at Guelph since 1967, will address students graduating from OAC and CPES Feb. 2 at 10 a.m.

Prof. Louis Christofides, chair of the Department of Economics, will give the convocation address to students graduating from the College of Social Science Feb. 1 at 2:30 p.m. □

Obituaries

Don Amichand was international student adviser

Don Amichand, former international student adviser on campus, died Jan. 23 of a heart attack.

He originally came to Canada from Trinidad as an international student to study at the University of Saskatoon, the University of Regina and the University of Calgary, where he graduated with a master of education in educational administration.

He taught high school in Edmonton and Calgary before joining U of G in 1968.

Mr. Amichand was strongly involved in community and church work in Guelph.

He is survived by his wife, Geraldine, two children, Michael and Mary, three sisters, one brother and nieces and nephews. □



Don Amichand

Caroline King, a first-year food science student, died suddenly while vacationing in Florida over Christmas. She is survived by her parents, Millie and Scott, her sister, Jennifer, and her brother, Mark, all of Ottawa. Friends in South Residences will be planting a tree on campus in her memory. □



Bruno Mancini presents the first Tara Lyn Giuliani Memorial Fund Scholarship to Shawn Dale, left, and Sara Bennett.
Photo - Kerith Waddington, University Communications

Scholarship aims to inspire students with disabilities

Third-year geography major Shawn Dale and fourth-year English and psychology major Sara Bennett are the recipients of the first Tara Lyn Giuliani Memorial

Fund Scholarship.

The award was established with donations from the Giuliani family and friends in memory of Tara Lyn, a former U of G student who was blind and helped open the Centre for Students with Disabilities in 1990.

Administered by the Hamilton Community Foundation and geared to offering inspiration and encouragement to students coping with a disability, the \$500 scholarship is available to students registered with the centre, with preference given to visually impaired applicants.

The awards were presented to Dale and Bennett by Bruno Mancini, co-ordinator of the Centre for Students with Disabilities and the Counselling Centre. □

come to
THE Valentine
CABARET

Saturday, Feb. 10
7:30 p.m.
College Inn

Tickets \$25
at the UC box office
or call 836-4056

Make your New Year's Resolutions a reality.

NUTRITION WORKS

— Make it Work for You!

A one day Workshop for Men & Women
from Nutrition and Change Consultant
Linda Barton, MSc, RD.

SUN., FEBRUARY 11, COLLEGE INN

Leave this workshop with the skills you need to design
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- Body image & self-esteem issues
- Common nutrition & exercise myths
- Areas you want to change



Linda is joined by
Lois Ferguson, BHSc, RD,
Self-Esteem Expert, for this
workshop.

Call Linda at *Enjoy For*
Life! 824-4120 ext. 3799
to register.



\$59.00
+ GST

STUDENT SPEAK

Awareness week events to highlight eating disorders

by Joanna Von Felkerzam

The Counselling Unit is marking Eating Disorder Awareness Week Feb. 4 to 10 with a series of events, including a forum, Wett Drama Troupe presentations and "Fearless Friday."

There will also be a screening day, designed specifically for students interested in symptom evaluation for themselves or friends. The day is part of the National Eating Disorders screening program organized on campuses across the country.

Through these activities, the Counselling Unit hopes to "make intervention early, address gender-related misperceptions on the subject and make people aware of what help is available on campus," says Ann Billings of the Counselling Unit. This help includes medical assistance from Student Health Services and individual and group counselling.

Symptoms of eating disorders are common across the student body because of the age of the general campus population, says Billings.

Students are often unaware of the health risks linked with this disorder or think they can manage it on their own, she says. "But in my experience, professional help is extremely important."

For more information, call the Counselling Unit at Ext. 3244.

The week's schedule follows:

- **Forum** — Feb. 5 from 5 to 7 p.m. in Room 442 of the University Centre. Guest speaker Leanne Ferries of Homewood Health Services and a panel of professionals from the University community will address eating disorders and share ex-

periences of eating disorder patients and their recoveries.

- **Screening day** — Feb. 8 from 9 a.m. to 3 p.m. in Room 317 of the University Centre. This is an anonymous eating disorder prescreening for students registered in the winter semester. Come in with a friend, if needed, and watch an educational video, complete a screening questionnaire and meet one on one with a health-care professional. This prescreening is not meant to offer a diagnosis, but to tell whether the symptoms suggest a need for further evaluation.

- **Wett Drama Troupe** — Feb. 5 at noon in Peter Clark Hall. The troupe presents "Friends in Need Need Friends Who Lead Your Friends to Help."

- **Fearless Friday** — Feb. 9 at Prairie, Mountain and Creelman halls. Enjoy half-price juice with a sandwich.

There are alternatives

DrinkWise, an educational program for "at-risk" drinkers, is available at U of G through an agreement between Student Health Services and Homewood Health Services. Operating on campus since 1993, the program offers educational sessions for self-motivated help-seeking individuals, although mandatory requirement students are accepted.

DrinkWise is educational, not rehabilitative, stresses Student Health Services director Jose Robinson. The program can help "binge drinkers" and those who drink excessively without addiction; those physically dependent on alcohol are referred to other,



Joanna Von Felkerzam

better-equipped community services, she says.

Clients learn about the medical and social consequences of heavy drinking and the role that alcohol plays in their life.

The program is modified to suit the semester system. Students can see a facilitator at any time during the semester to set up a one-on-one evaluation session, then meet on or off campus to set up an appropriate schedule based on individual needs and expectations. Students in need of support during semester breaks and holidays can conduct a session via telephone or at a convenient meeting place.

Students are often referred to the program by Student Health Services, program counsellors and residence managers who have observed behavior, discipline and academic changes, says Robinson.

Cost of the program is \$20. For more information, call Ext. 4333.

At Guelph in Ghana

Samuel Tagoe, a 20-year-old student at the University of Ghana, wrote to *At Guelph* to say he is interested in corresponding with a Guelph student. A first-year biology student, he is interested in sports, writing and film. If interested, write to him directly c/o Ben Tagoe, Box 186, ACCRA, Ghana. □

Lectures focus on media in Canadian life

"Media in Canadian Life," a special lecture series presented by the Interdisciplinary Program on Canadian Studies, will run until March 26 in Room 226 of the MacKinnon Building. The line up includes:

- Feb. 6, 1:30 p.m. — **Thom Rose**, foreign editor for CBC's *As It Happens*, "Choosing the Foreign Agenda."
- Feb. 8, noon — **Barry Duncan** of the Association for Media Literacy, "Reading Pop Culture: From Malls to Michael Jackson."
- Feb. 27, 1:30 p.m. — **Prof. Linda Hunter**, Sociology and Anthropology, "The Portrayal of Gender in Advertising Images."
- March 6, 3:30 p.m. — **Ray Morris**, a York University sociologist, "Canadian Political Editorial Cartoon Analysis."
- March 14, noon — **Robert Klint**, production co-ordinator for TVOntario's *Imprint*, "Imprint — Television and Literature: Can They Co-Exist?"
- March 19, 1:30 p.m. — **Geoff Pevere**, film critic, "Media as Contemporary Mythology."

- March 21, noon — **Tom Kleinbeernink**, a consultant and community activist, "The Corporatization of Culture."

- March 26, 1:30 p.m. — **Prof. Don Richardson**, Department of Rural Extension Studies,

"The Internet, People and Society."

Registration is \$15 for one lecture or \$30 for any three. For more information or to register, call Remo Petrongolo in the Office of Open Learning, Ext. 3064. □

Teleconference gets real!

Professionals concerned with student health, well-being and achievement are invited to take part in "Get Real!," an interactive teleconference to be held on campus Feb. 13 from 12:45 to 4 p.m.

Dr. Richard Keeling, director of University Health Services and professor of medicine at the University of Wisconsin, Madison, will provide dynamic illustrations of barriers to healthy decision making.

He will discuss ways to re-engineer a campus environment and health-promotion programs to help create healthier students and a stronger community.

Participants will learn methods to improve the campus climate by shaping healthier norms, creating

new traditions, collaborating with opinion leaders, implementing effective health strategies, defining new roles for peer education, and developing a stronger sense of community with shared values. Keeling will also present strategies to connect health issues to the academic mission.

Counselling staff, health educators and student affairs staff are among the professionals who would benefit from this event.

Registration costs are \$10 for OCHA/CCHSA members, \$15 for students and \$25 for others. For information or to register, call Jose Robinson, director of Student Health Services, at Ext. 4333. □

Land Resource Science strikes gold



The "Old Hort" building, the first home of the Department of Soils.

The dust is flying at the Department of Land Resource Science.

That's because faculty, staff and students are gearing up to celebrate 50 years of departmental service and achievements with an open house Feb. 7 from 1:30 to 4:30 p.m. in the Richards Building.

At the open house, department members will share their wealth of knowledge with the rest of campus and the wider Guelph community. Laboratory tours, demonstrations, historical displays and posters of current research will show visitors the development of the department from its founding in 1945 as the Department of Soils to today's interdisciplinary Department of Land Resource Science.

Current teaching and research often combine departmental expertise in various aspects of atmospheric science, soil science, geology and resources management, says recently retired professor Ken King, who is co-ordinating the open house.

"Our new graduate program in land and atmospheric science will help provide young scientists who can address complex problems related to our natural resources," says King.

Until 1945, soils projects and courses were administered by the Chemistry Department. References to the study and teaching of soils are found in the annual reports of OAC in the 1880s. While Prof. Robert Harcourt was head of the Chemistry Department (1901 to 1937), soil science assumed a major role.

Logical sequence

Staff members of the Chemistry Department's soils division were transferred to the "Old Hort" building (now the site of the McLaughlin Library) in 1936. As a logical sequence to the physical separation of the soils division from the Chemistry Department, the Department of Soils was established in 1945.

Prof. G.N. Ruhnke, who had joined the Chemistry Department in 1923, was the first head of the Department of Soils.

The department expanded to include the discipline of agrome-

teology in 1956 and geology in 1966 and was renamed the Department of Land Resource Science in 1971 to reflect its broader interests in land planning and use.

The Old Hort building continued to house the Department of Soils until the new Soils Building opened in September 1958. Later known as the Land Resource Science Building, it was renamed the Richards Building in 1989 after Prof. Rick Richards, former professor and head of the department and later dean of OAC from 1962 to 1973.

Major activities

In the early years of the department, soil survey and classification of the soil resources of Ontario were major activities, says King.

"Each summer, there would be soil surveys under way in various counties to map the areal distribution of soils," he says. "An experienced soil surveyor would be accompanied by a student assistant, whose main tasks were driving up and down the back roads and digging pits a few feet in depth so the soil could be identified and samples taken for later physical and chemical analysis. Many faculty members in the Department of Land Resource Science got their start assisting in this way on the soil survey."

The soil survey in Ontario and other provinces was a fruitful example of federal/provincial/University co-operation, adds King. Several soil scientists employed by the federal and Ontario agriculture departments were located in the department.

The provision of soil survey information has been a valuable contribution to farmers and planners and all concerned with the best use of limited resources, he says.

The department has a long history of involvement in extension and advisory services for agriculture. Soil-testing methods were developed that, backed up by fertilizer field trials, provided economical returns to farmers and protection of the environment.

A farm planning service based on land-use capabilities was launched in 1946 in conjunction with the Ontario Department of

Agriculture. Geared towards soil and water conservation, detailed soil maps were prepared and recommendations made regarding crop rotations, erosion control, field rearrangements, strip cropping and more. By 1955, 555 farms had been planned.

Accompanying society's growing concern with soil degradation and deteriorating water quality, departmental members have taken leadership roles in federal/provincial programs such as PLUARG (Pollution from Land-Use Activities), SWEEP (Soil and Water Environmental Enhancement Program), the Land Stewardship Program and, most recently, the Green Plan.

These programs have led to increasing adoption of conservation tillage practices, better management of manure, etc., which reduce the contribution of sediment and phosphorus to surface water and nitrates to ground water.

Publishing an annual progress report on its teaching, research and advisory services since 1954 (the 1994 report is available on the World Wide Web), the department has documented its changes and highlighted its accomplishments as they have occurred. A few of the many include:

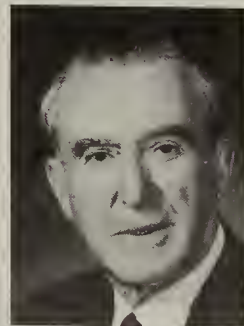
- development of the Guelph

permeameter for accurate measurement of water-flow rates in farm-drainage and irrigation systems, landfill liners and septic-system designs. It was named one of the 50 outstanding products or systems technologies by *Agricultural Engineering* magazine.

- development of a diode laser trace-gas detector used to date in several countries to measure the emission of greenhouse gases from land and water surfaces. Developers earned the Norbert Gerbier-Mumm Award from the World Meteorological Organization in 1992.

- cathode protection of mine wastes to prevent environmental problems caused by acid drainage waters.

Prof. Terry Gillespie says the efforts of Department of Land Resource Science faculty and staff in teaching excellence and innovation has resulted in a proud teaching reputation that has been recognized by more than 10 special awards. These include the OAC Alumni Teaching Award, the U of G Faculty Association Teaching Award and the Canadian



Prof. Rick Richards

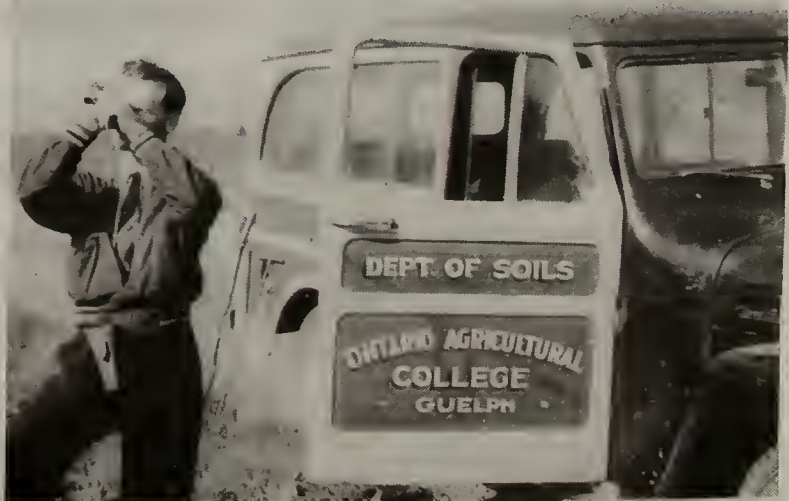
CASE Professor of the Year Award.

Concern about the environment has always been the mandate of the department. This has resulted in the development of farm-management practices that are economically competitive but also maintain or enhance the environment, says department chair Gary Kachanoski.

"Paying attention to both the need for a competitive agriculture and food system and protection of the environment has been the key to the department's success," he says. □



Departmental atmospheric, earth and soil scientists took part in an international study of northern wetlands in 1990.



Former department member Prof. Bruce Russ measures the steepness of a slope in the 1950s.

Community

NOTICES

Proposals sought

Proposals are invited from researchers at Canadian universities for funding through a new five-year agreement between the Natural Sciences and Engineering Research Council and the National Research Council. Some \$25 million is available for research projects, chairs, networks, equipment or facilities, scholarships and fellowships. Deadline for proposals is Feb. 16. For more information, call Wayne Marsh at Ext. 6931.

Art on display

The University Club will feature an exhibit of paintings and monographs in watercolor and oil by Marlene Jofriet and Pat Kandel until March 1. An artists' reception is slated for Feb. 4 from 2 to 4 p.m.

Directory available

The Universities Telephone Directory 1995/96 is available for \$17.95 (plus GST) from the Association of Universities and Colleges of Canada Publications. Send payment by cheque or charge card to AUCC Publications/pr, 600-350 Albert St., Ottawa K1R 1B1.

McNeil Medal

Nominations are sought for the McNeil Medal for the Public Awareness of Science, which is sponsored by the McNeil Consumer Products Company and the Royal Society of Canada. The medal and a \$1,500 bursary are awarded to an individual who has demonstrated outstanding ability to promote and communicate science to students and the public in Canada. The deadline for nominations is April 15. For a brochure on the medal, write to the Royal Society of Canada, 225 Metcalfe

St., Suite 308, Ottawa K2P 1P9, or send e-mail to jklein@rsc.ca.

In concert

The University Centre presents Ani DiFranco March 2 at 8 p.m. and Big Sugar Feb. 8 at 9 p.m. — both in Peter Clark Hall. Tickets are available at the UC box office.

Job fair set

Job Fair '96 runs Feb. 7 from 10 a.m. to 3:30 p.m. at Bingemans Conference Centre in Kitchener. Free transportation is available. Professional attire is recommended. More information is available from the Career Centre on Level 3 of the University Centre.

A Valentine's dance

The Lung Association presents a smoke-free Valentine's Dance with the Mudeats Feb. 10 beginning at 8:30 p.m. at The Loft on Carden Street. Tickets are \$10 and are available at Carden Street Music, Looney Tunes and the Lung Association, 2 Quebec St., 822-7739.

Heritage Day Festival

The Wellington County Museum and Archives presents a multicultural celebration for the whole family at a Heritage Day Festival Feb. 18 from noon to 4 p.m. For more information, call 846-0916. From Feb. 10 to March 24, the museum is hosting "Data on the Move," a travelling exhibit from the National Museum of Science and Technology featuring 54 interactive games for teenagers and adults.

Turn rust into gold

The Kidney Foundation of Canada, western region, will tow your old rusty motor vehicle (car, truck, motorhome, motorcycle, camper, bus or boat on trailer) for free,

auction or salvage the vehicle, then issue an income tax receipt for the auction price or salvage value. Money raised will go towards research into kidney disease, patient services and public education. To donate, call 1-800-565-5511.

Crop management

A symposium on "Integrated Crop Management — Optimizing Inputs," will run on campus March 8, providing a forum for producers, agricultural consultants and researchers to review research aimed at improving the profitability of field-crop production in Ontario. The symposium will run from 9:30 a.m. to 4 p.m. at the Arboretum Centre. Cost is \$35. For more information, call Prof. Clarence Swanton, Crop Science, Ext. 2512.

Dream auction

The Elora Festival presents its ninth annual dream auction April 20 at the Elora Curling Club. Doors open at 6 p.m. Tickets are \$30 each or \$55 per couple and can be ordered by calling the festival office at 846-0331. Donations to the auction are welcome.

Alumni bonspiel

The 38th annual OAC alumni bonspiel runs April 12 and 13 at the Guelph Curling Club. The bonspiel will feature a competi-

tive event for up to 16 teams and a social event for up to 32 teams. Entry fee is \$150 for the competitive event (students \$130), \$135 for the social event (students \$110.) A dinner will be held Saturday at 7 p.m. Registration deadline is March 4. For more information, call Sarah Nadalin in Alumni House at Ext. 6533.

Engineers offer scholarship

The Canadian Council of Professional Engineers (CCPE) offers scholarships to promote excellence in Canadian engineering, with six cash prizes totalling \$45,000. Deadline for applications is May 1. To apply, contact your provincial or territorial pro-

fessional engineering association, fax to CCPE at 613-230-5759 or send e-mail to Imacdon@fox.nstn.ns.ca.

Fête Romantique winner

Mary Howlett Nero is the winner of the Guelph Arts Council's Fête Romantique grand prize, a gourmet dinner for six to be held Feb. 10 in a heritage home in Guelph. The council raised \$11,300 through this year's draw.

Watercolor exhibit

The Arkell Schoolhouse Gallery, 843 Watson Rd., Arkell, features an exhibit of watercolors, pastels and oil paintings by Airaca Dalen until March 31.

JOBS

As of at Guelph deadline Jan. 26, the following opportunities were available to on-campus employees only:

Accounts Payable Clerk, Accounts Payable, Financial Services, temporary leave from Feb. 5 to Aug. 30/96, secondment opportunity. Salary: \$13.17 to \$14.71 an hour. Removal date: Jan. 31.

Veterinary Technician, Veterinary Teaching Hospital, tempo-

rary full time from Feb. 19 to Feb. 18/97, one position to accommodate two reduced workloads. Salary: \$15.70 to \$17.54 an hour. Removal date: Jan. 31.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

CLASSIFIEDS

WANTED

Used NordicTrack, cross-country ski model, Ext. 3438 or 763-7430.

Two-bedroom apartment or townhouse in central or south end of Guelph for March 1, 821-6189.

Microbiology graduate seeks temporary laboratory work, has extensive molecular biology experience, Bridget, 837-8103.

Join Us for an Open House in Honour of Dora Baker's Retirement

February 19, 1996 + 3 to 5 p.m.
Grad Studies Boardroom (#427)
Fourth Floor, University Centre
(Opposite Revenue Control Counter)

Drop in to enjoy light refreshments while sharing memories and congratulations to Dora.

A donation of your choice may be made towards a special farewell gift for Dora. Please R.S.V.P. to Andrea Klein c/o Revenue Control (Ext. 3315). Please make any cheques for donations payable to Andrea Klein.

FOR RENT

Furnished one-bedroom basement apartment, private entrance, parking, \$500 a month inclusive, 836-9989.

Fully furnished three- or four-bedroom home, hardwood floors, fireplaces, two sunrooms, deck, porch, large partly fenced yard, laundry, parking, near Elora Gorge and swimming quarry, available March to July 1996, \$700 a month inclusive, 787-0609.

FOR SALE

Futon sofa bed, apartment-sized washing machine, dining room table and four chairs, excellent condition, Caroline, Ext. 4472.

1986 Hyundai Pony, Corey, 837-1596.

AVAILABLE

Ballroom dancing, beginners, intermediates and singles, 10 lessons starting Feb. 4, 20 years' instruction experience, 837-0040 after 7 p.m.

Pet sitting and pet nursing care for large and small animals by a veterinarian, security-cleared individual, Janis, 766-0634.

Care for your dog in my home while you travel, references available, Cobi, Ext. 6010 or 836-8086.

Four-bedroom home in Victoria, B.C., three baths, renovated kitchen, large deck with BBQ, fireplace, double garage, spacious grounds, available from June 1996 to June 1997, \$2,000 a month for main floor or \$2,800 for entire house plus utilities, references required, Lawrence House, 604-472-2654 or fax 605-658-0178.

THANK YOU

Kevin McGeough and Amanda O'Connor would like to thank all their friends at the University for their support and best wishes on the birth of their daughter Noella McGeough, born Dec. 21 at Guelph General and weighing 8 lbs, 6 ozs.

Money
is
flat
and
meant
to
be
piled
up.

Scottish Proverb

A simple message that, in reality, can sometimes be very difficult to follow. One thing is certain; the sooner you get a start, the sooner you'll get ahead. And that's where I can help. By working with you to build an individually tailored, comprehensive financial plan that's right for you, you'll not only benefit from tax savings

today, but greater savings tomorrow.

I am a trained financial planner, advising on a wide portfolio of investments and I believe you're worth more. Call me at 836-6320.



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Senior Partner

CALENDAR

THURSDAY, Feb. 1

Fine Art Film Series - Barbara Sternberg, a Toronto experimental filmmaker, discusses her work at noon in Zavitz 320. At 6:30 p.m. in the Macdonald Stewart Art Centre, Sternberg introduces three films as part of the series "Images of Self and Nation in Canadian Experimental Film and Video."

Concert - Violist Henry Janzen and pianist Alison MacNeill perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Cultural Studies Lecture - Jacques Pelletier of the University of Quebec describes the "Situation de l'intellectuel aujourd'hui" at 4 p.m. in MacKinnon 101.

FRIDAY, Feb. 2

Human Biology/Nutritional Sciences Seminar - Mark Friedman of the Monnell Chemical Senses Centre discusses "Control of Energy Intake by Energy Metabolism" at 11:10 a.m. in Animal Science/Nutrition 141.

MONDAY, Feb. 5

Cultural Studies Lecture - "Deciphering the Cultural Landscape" is the topic of College of Social Science dean David Knight at 2 p.m. at the University Club.

TUESDAY, Feb. 6

Canadian Studies Lecture - Thom Rose, foreign editor for CBC Radio's *As It Happens*, discusses "Choosing the Foreign Agenda" at 1:30 p.m. Cost is \$15. To register, call Ext. 3064.

Cultural Studies Colloquium - A graduate student forum on "The Politics of Representation" be-

gins at 2 p.m. in the University Club.

Physics Seminar - Robert Orr of the University of Toronto discusses "The Lepton Microscope" at 4 p.m. in MacNaughton 113.

WEDNESDAY, Feb. 7

Third Age Learning - The lecture series for retired people continues with Profs. Terry Crowley, History, and Peter Brigg, English, discussing "China - Two Conflicting Views" at 10 a.m. and Prof. Eugene Benson, English, examining "An Ideal Husband by Oscar Wilde" at 1:30 p.m. Lectures are at the Arboretum Centre.

Zoology Seminar - "Ontogeny of Respiration in Atlantic Cod" is the subject of Paul Valerio of McMaster University at 4 p.m. in Axelrod 265A.

THURSDAY, Feb. 8

Pathology Seminar - Graduate student Jean Paré discusses "Vaccination of Raccoons Against Canine Distemper: An Experimental Study" at 11:10 a.m. in Pathology 2152.

Canadian Studies Lecture - Barry Duncan of the Association for Media Literacy discusses "Reading Pop Culture: From Malls to Michael Jackson" at noon. Cost is \$15. To register, call Ext. 3064.

Fine Art Film Series - Kika Thorne, a Toronto experimental filmmaker, discusses her work at noon in Zavitz 320. At 6:30 p.m. at the Macdonald Stewart Art

Centre, she will introduce three films as part of the series "Images of Self and Nation in Canadian Experimental Film and Video."

Concert - The Andrew Klæhn Quartet performs at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - The Counselling Unit hosts a session on "Dealing With Anxiety Through Relaxation, Meditation and Yoga" as part of the series "Unlocking Your Academic Potential" at 5 p.m. in UC 334.

FRIDAY, Feb. 9

Human Biology/Nutritional Sciences Seminar - Renée Roach, Human Biology/Nutritional Sciences, considers "Interaction of Zinc and Epidermal Growth Factor on Esophageal Morphology in the Rat" at 11:10 p.m. in Animal Science/Nutrition 141.

WEDNESDAY, Feb. 14

Third Age Learning - The lecture series for retired people continues with Prof. Neal Stoskopf, Crop Science, discussing "Who Will Feed China?" at 10 a.m. and Prof. Harry Lane, Drama, examining "Rashomon" by Fay and Michael Kanin" at 1:30 p.m. Lectures are at the Arboretum Centre.

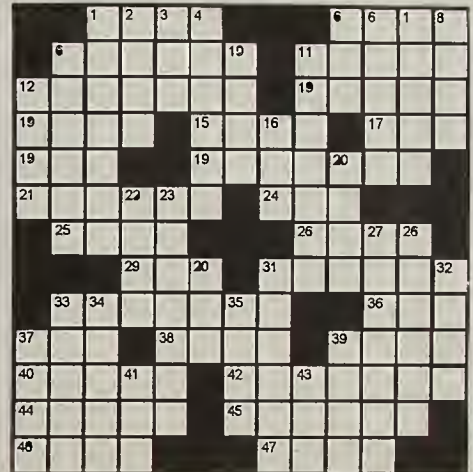
Biochemistry Seminar - "Setting an Environmental Standard for Tritium in Drinking Water" is the focus of Mark Goldberg, GlobalTox International Consultants, at 12:10 p.m. in MacNaughton 222.

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Canadian Criss Cross by Walter D. Feener

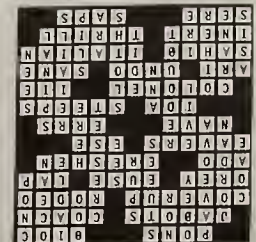


ACROSS

1. Soprano Lily
5. Political faction
9. Ruffles
11. Athletic instructor
12. Crime disguise
13. Roundup
14. Paris airport
15. Detonating device
17. Race course circuit
18. Activity
19. Pep up
21. Ceremonial basins
24. Compass dir.
25. Wheel hub
26. Goes amiss
29. Mount Psilitor
31. Imbues thoroughly
33. Army rank
36. Sleeper
37. Dexterity
38. Loosen a knot
39. Not deranged
40. India title of respect
42. Romance language
44. Sluggish
45. Rush of emotion
46. Withered
47. Weakens

DOWN

1. Ballet dancer Anna
2. Follow the book
3. Companion of neither
4. Crams full
5. Jeer
6. Soup spoon
7. Large expanse
8. Cut of pork
9. Michael of the Bulls
10. Point sticking out
11. Oil burner
12. Anthracite
16. Understand
20. This place
22. Morally bad
23. Temporary fortification
27. Sells in small quantities
28. Of the backbone



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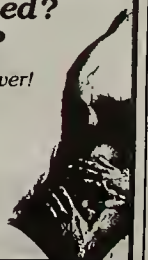
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WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □

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COMMENTARY

Veterinary pathology flourishes as independent discipline

by Leon Saunders

No one who has followed the fortunes of the University from 1993 to 1995 as I have could possibly remain unaware of its epic strategic-planning efforts. The laudable labors to define the University's goals and the means for attaining them have evoked my respect and admiration.

Only through *At Guelph* have I been able to follow, with considerable sympathy, sorrow and apprehension, the efforts of successive Ontario governments to stifle the University's ability to function. (Our leading newspapers in New York, Philadelphia and Washington do not report on Ontario politics.)

It was with consternation, however, that I opened the Jan. 10 issue of *At Guelph* and read the headline "OVC Merger Creates New Pathobiology Department."

For the past 15 years, I have

been investigating the evolution of veterinary pathology during the period 1800 to 1950. (The manuscript of the resulting book is now at the printer; publication will be this summer.) My research has uncovered an astonishing situation in the development of veterinary pathology. It flourished only in countries where it could exist as an independent scientific discipline, be it in universities or in national research laboratories.

The discipline was able to thrive in the three German-language countries, all the Scandinavian ones, Italy, the Netherlands, Russia and South Africa. The countries in which pathology — both human and veterinary — was subservient to microbiology lagged decades behind. These include Great Britain and its colonies — Australia, Canada, India, New Zealand and Rhodesia — and its

erstwhile colony, the United States.

In these latter countries, one finds departments of "pathology and bacteriology," invariably headed by a microbiologist whose horizons were hounded by a Petri state. Subservient to this microbiologist is a person trying to work as a pathologist, who remains a perennial assistant; this person could never aspire to attain professional rank, no matter how long his or her career.

In the years 1880 to 1930, the scientists in those countries where veterinary pathology was an independent discipline made countless path-breaking discoveries in human and animal pathology. Without any real counterparts in the other countries, little or nothing comparable was accomplished. An exception occurred now and then, such as the late Frank Schofield at OVC, who

was a master of both disciplines.

The lot of the languishing pathologists began to improve in some of the former British colonies after the Second World War. My OVC classmate the late Larry Smith, educated by William Boyd in Toronto and Peter Olafson at Cornell, organized a good pathology department at OVC. In the remaining four decades, this department became an excellent one, then an outstanding one under the leadership of Smith's several successors.

They recruited a faculty of teachers/researchers who, by the mid-1900s, were respected and admired throughout the English-speaking world by virtue of their research accomplishments and their books. The books written and edited by the Pathology Department's faculty have exerted an enormous influence on the teaching of veterinary pathology. This also extends to many countries outside the English-speaking ones, which have no comparable books for their vernacular languages.

As a former president of the American College of Veterinary Pathologists and as one of the two founders of the association of World Veterinary Pathologists, I have had ample opportunity to assess the relative merits of many departments of pathology at home and abroad. I believe OVC's department has become second to none during its last decades.

It is from this pinnacle that Guelph would now have its Department of Pathology descend. I find the reasons given for the intended amalgamation specious. The philosopher George Santayana wrote: "Those who are not disposed to read history must be prepared to repeat it." In this case, the reputation looms, in my view, as a giant step backwards, and this letter is an anguished protest against it.

To avoid this happening and to satiate the University's seemingly insatiable appetite for mergers, I propose an alternative version. This merger should comprise the four "etiological" disciplines: bacteriology, immunology, parasitology and virology. It could be named "Depart-

ment of Micro/Macrobiology," rather than the inherently redundant "pathobiology," which to my astonishment, no member of the English Department detected and rejected in the Senate meeting.

The Pathology Department should comprise anatomic pathology, avian medicine, clinical pathology, fish and aquatic animal medicine and zoo/wildlife medicine. This way, a cherished reputation would be acknowledged — intramurally as well as worldwide — and continued.

Unfortunately, there is no way I can speed up the publication of my book, because only in the book have I had enough space to present a detailed exposition of why veterinary pathology was the underdog discipline for decades in British and Canadian veterinary and medical schools. I hope that the intended May transition can be postponed until July or August, when the book will be out.

One can read the supporting data for my historical findings of lethargy in certain countries during a time of impressive advances in others. (This invitation is not, of course, a sales "plug" for my book!) I hope that perusal of my research information will lead to a reconsideration of what is threatened in May.

Required reading

There is an additional book that discusses mergers, this time in the business world, but not irrelevant to the academic one. Published in 1987, this book is still in print and should be required reading at Guelph before any more mergers are made. It is *Thriving On Chaos* by America's leading management analyst, Tom Peters.

One chapter is titled "Merging and Demerging: Shuffle for Shuffle's Sake." He is against this fad because it doesn't work. He castigates his compatriots: "Big, not best, has always been the American calling card." Citing another author, he says: "Scientific evidence has not been kind to the apostles of bigness and to their mythology." A final barb from Peters: "You don't put two turkeys together and make an eagle."

Since the American College of Veterinary Pathologists met in Montreal a year ago, my U.S. colleagues in veterinary pathology are aware that this subject was first taught on this continent in Canada by no less a scholar than Sir William Osler. They will be astounded to hear that Guelph's Department of Pathology, which they hold in such high esteem, is being encumbered by disciplines it does not need, the burdens of which are eventually certain to lead to its decline.

As for the father (in the 1880s) of veterinary pathology in North America, if the Senate-approved merger begins as reported, Sir William will be turning in his grave.

Leon Saunders, a 1943 graduate of OVC, is an adjunct professor of pathology at the School of Veterinary Medicine at the University of Pennsylvania.

PUBLICATIONS

Prof. Bill James, Engineering, is one of the authors of *Aquatic Science in Canada: A Case Study of Research in the Mackenzie Basin*. James is a member of the Aquatic Science Committee of the Royal Society of Canada, which produced the report.

A major review document for the UN's International Program on Chemical Safety has been published by Prof. Len Ritter, Prof. Keith Solomon and graduate student Janet Forget, Environmental Biology, along with Marvin Stemmeroff and Catherine O'Leary of the Deloitte and Tou-

che Consulting Group. The review identifies 12 specific compounds deemed most troublesome internationally by the UN's Environment Program and will be presented this March to the intersectoral group of the Inter-governmental Forum on Chemical Safety in Australia.

"A Physical Map of the 85 Kb Virulence Plasmid of *Rhodococcus Equi* 103," an article by graduate student Alejandro de la Pena-Moctezuma and Prof. John Prescott, Veterinary Microbiology and Immunology, was published in the *Canadian Jour-*

nal of Veterinary Research 59. Their article "Association with Hela Cells by *Rhododoccus equi* with and without the Virulence Plasmid" appeared in *Veterinary Microbiology* 46.

Prof. Soren Rosendal, VMI, is author with Sharon Levisohn of Kimron Veterinary Institute in Israel and Ruth Galfily of the Hebrew University Hadassah Medical School in Israel of "Cytokines Induced In Vitro by Mycoplasma Mycoides Ssp. Mycoides, Large Colony Type," which appeared in *Veterinary Immunology and Immunopathology* 44.

"Introductory Apiculture at Guelph: 102 Years Young and More Apiculture Students Than Anywhere," by Prof. Peter Kevan, Environmental Biology, appeared in the March 1995 issue of *American Bee Journal*.

"Diverse VH and VK Genes Encode Antibodies to *Pseudomonas aeruginosa* LPS," by postdoc Marlene Emara, grad student Nancy Tout and Prof. Joseph Lam, Microbiology, and Prof. Azad Kaushik, VMI, appeared in *Journal of Immunology* 155.

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AT GUELPH

40th
Year

Volume 40 No. 5

University of Guelph, Guelph, Ontario

February 7, 1996

AT A GLANCE

Maple Syrup Days. Come experience the smells and tastes of maple syrup making at the Arboretum on weekends from March 2 to 24 from 11 a.m. to 4 p.m. and weekdays March 12 to 15 from 10 a.m. to 3 p.m. Cost is \$2.50 for adults, \$1.50 for children 12 and under.

Be my Valentine! The Horticulture Club is holding a special Valentine's Day sale of cut flowers and plants at three locations: the Thornbrough Building lobby, the Animal Science and Nutrition Building lobby and the Prairie Hall overpass. Orders will be taken Feb. 13 and will be available for pickup Feb. 14 from 10 a.m. to 5 p.m.

High fines don't pay off. Two economists say the low fines used to enforce industrial emission standards work surprisingly well... page 3

Wanted: 900 volunteers. The Ontario tree atlas project at the Arboretum needs you... page 3

It's a first! A new zoology course is the first to be offered on CD-ROM at Guelph... page 4

An open-learning experience. History courses aim to broaden access for students... page 4

The commentary page. Profs. Janet Wood and George Renninger offer their perspective on the University's human rights initiatives... page 8

Thought for the week

Don't let that chip on your shoulder be your only reason for walking erect.

James Thurber



Look out, world, here we come! Cold temperatures couldn't cast a chill on the excitement at convocation ceremonies Feb. 1 and 2 as more than 800 students joined the ranks of Guelph alumni. Above, Kathleen Grece, left, and Kate Webster celebrate their graduation from the MA program in industrial psychology. At right, Shirley Yeung has blooms in her cheeks as well as her hands after receiving her bachelor of commerce. For more convocation coverage, see page 5. Photos - Kerith Waddington, University Communications



Financial outlook plans to be unveiled next week

Faculty, staff and students will learn next week how the University proposes to deal with the budget shortfall caused principally by a projected permanent 16-per-cent reduction to its Ministry of Education and Training (MET) grant for the 1996/97 fiscal year, which begins May 1.

Two town hall meetings are scheduled Feb. 15 to inform employees and students about the impact of the total funding shortfall projected for 1996/97 and proposed solutions.

Senior academic and administrative officers will meet with faculty and staff from noon to 1:30 p.m. and with students from 5 to 6:30 p.m., both in Peter Clark Hall.

Nancy Sullivan, vice-president (finance and administration), confirmed Feb. 2 that Guelph has not yet received the final allocation figures from MET.

"The precise amount will depend on enrolment patterns at

other institutions and the distribution among the various funding envelopes," she said.

U of G has just received guidelines on increasing tuition, but the visa fee issue has not been resolved.

Sullivan said the University anticipates that MET will release its discussion paper on the future of Ontario universities and colleges this month, as well as the names of the three-person commission that will prepare a report in four to six months for MET. Four issues to be explored are accessibility, rationalization, who pays what share of costs and university/college articulation.

The possible solutions to the '96/97 shortfall reflect the results of recent contingency planning in the three categories of restructuring/savings, revenue generation and staffing and compensation, said president Mordechai Rozanski.

Supervisors are encouraged to

allow staff time to attend the complete meeting where possible. Faculty and staff who are unable to attend the noon meeting are

encouraged to attend the 5 p.m. session. A question-and-answer period will follow each presentation. □

Town hall meeting

The University community is invited to a meeting

"BUDGET SHORTFALL AND THE PROPOSED SOLUTIONS"

Thursday, Feb. 15

Noon to 1:30 p.m.

Peter Clark Hall, University Centre

with

President

Mordechai Rozanski

Provost and Vice-President (Academic)

Iain Campbell

Vice-President (Finance and Administration)

Nancy Sullivan

Assistant Vice-President (Finance)

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LETTERS

Pathobiology Department committed to quality in new academic era

I am writing in response to the commentary by Leon Saunders in the Feb. 1 edition of *At Guelph*. He expressed concerns about the proposed amalgamation of the departments of Pathology and Veterinary Microbiology and Immunology, a process scheduled for implementation May 1.

Leon Saunders is an alumnus of OVC and an esteemed colleague who enjoys an enviable reputation in veterinary pathology circles. He is concerned about the consequences of the amalgamation process, including the change in name to "Pathobiology," the change in the mission of the new department and the inherent dangers associated with becoming bigger, including the fear that the academic quality of pathology will become seriously compromised.

Both departments have experienced substantial reductions in faculty numbers over the past four

years, thanks to the prevailing fiscal climate. Based on the signals from government sources, this reality will remain with us well into the next millennium. It is unfortunate, but true, that reductions in faculty and staff are a fact of life.

The proposed amalgamation was not implemented without consultation and deliberation. A vote was held, and the two existing departments voted by a sub-

stantial margin to approve the merger. Inherent in this merger was the understanding that we continue to recognize and foster the strengths of the two existing departments and that we strive to establish additional academic ties in the process.

In the pathology areas, we agree it is essential that the disciplines of anatomic and clinical pathology continue to flourish under the

new regime. Discipline training will not become a lost art in the new department. At present, for example, there are 15 students enrolled in D.V.Sc. programs in pathology, including several from abroad. This program is designed to provide registrants with the discipline training needed to excel in their chosen field.

In addition, the standards, as set by the American College of Veterinary Pathologists, will remain an important criterion to ensure that the appropriate level of education is maintained.

In addition to interaction with our colleagues in other departments, we are fortunate to have

the opportunity to work closely with the talented diagnostic pathologists in the provincial diagnostic laboratory (OMAFRA-VLS) located on campus.

Leon Saunders's concerns are duly noted. With reduced faculty numbers and resources, it will be impossible to maintain the same level of activity in all areas in the future. We do, however, remain committed to quality and will do our best to cope with the changes that are inherent in a new academic era.

Prof. Dean Percy, chair
Department of Pathology

Carousel magazine funded by College of Arts students

I would like to thank Joanna Von Felkerzam for her article about *Carousel* magazine in her Jan. 24 "Student Speak" column. I'm sure the article helped ensure that our launching event Jan. 25 was such a huge success.

I wish, however, to clarify one of the points made in the column about funding for *Carousel*. The magazine does not receive 80 cents a semester from every undergraduate student at Guelph. Rather, it receives 80 cents a semester from every undergraduate enrolled in the College of Arts. This is an important distinction. The difference in funding between the former and the latter is about \$8,000 a semester.

The cost of printing a single edition of *Carousel* is close to \$5,000. Our current annual funding covers less than half of this cost. Our volunteer fund-raising efforts must be successful to pay the remainder of our expenses — distribution, promotion, etc.

On behalf of all *Carousel* volunteers, I would again like to thank the College of Arts students who voted last spring to pay a semester fee for *Carousel*. I'd also like to thank all organizations and individuals who have supported the magazine in the past and continue to do so.

Michael Carbert
Editor, *Carousel*

Mission statement bursary offered to undergraduates

I sensed in Prof. John Roff's commentary in the Jan. 24 issue of *At Guelph* a challenge to harness the intellectual resources at U of G to develop a mission statement of "true scholarship" worthy of Guelph.

He has been approached, and a plan is being developed to offer a "mission statement bursary" of \$1,000 to an undergraduate student or group of undergraduates who prepares the best mission


statement appropriate to U of G. Five finalists will be chosen to make oral presentations March 21 in Room 113 of the MacNaughton Building.

We anticipate this will be of wide interest to the University community. Further details will appear in the *Ontario*.

Gordon Bowman, retired
Department of Animal and
Poultry Science

At Guelph welcomes letters to the editor from members of the University community. They must include the full name, signature and telephone number of the correspondent. *At Guelph* reserves the right to reject any letter for publication and to edit letters for content and length.

Farcus
By David Waddington
Gordon Coulthart



"... and the guys down the hall are working on the trap."

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STUDENTS SPEAK

Award opens pathway on the Rhodes to success

by Joanna Von Felkerzam

U of G's Rhodes Scholarship selection committee is looking for undergraduate students who exemplify excellent academic standing, leadership qualities and energy to use their talents to the full. The scholarship covers two to three years of study at the University of Oxford in a field of the student's choice, provided the student is accepted into Oxford on a separate application.

Only two Rhodes Scholarships are allotted to Ontario, and each university can submit only one candidate, who must be supported by the university's president. A subcommittee of the Senate Awards Committee makes a recommendation to the president from applications received.

The University's application deadline is in September, but because the application process is extensive, students are urged to submit their applications early, says committee chair Prof. Cathy Ralston, HAFSA.

The final selection of scholarship recipients is made by a committee of Rhodes Scholars.

Anyone interested in more information about the scholarship can call Peter Landoni in the Registrar's Office at Ext. 3311 or Ralston at Ext. 2786 (e-mail: cralst@uoguelph.ca).

Free workshops offered

The Counselling Unit is launching a series of free workshops designed to help students resolve personal issues and stresses that limit their academic potential,

says Bruno Mancini, director of the unit.

"Each workshop will address a specific issue that often interferes with academics, in an attempt to translate that into a stronger, better potential," Mancini says.

"Dealing with Anxiety Through Relaxation and Meditation" Feb. 8 offers students relaxation exercises and techniques to help deal with tension. "Balancing Your Act" Feb. 15 will teach students how to balance personal life, work and academics.

In the third session, "Understanding Your Moods," slated for Feb. 29, Beth Reade will address concerns related to mood changes. "Creative Journal Writing" March 7 and "Body Image" March 14 will present therapeutic techniques to relieve stress and



Joanna Von Felkerzam

improve one's self-image.

The final workshop, "Wellness and You," runs March 21 and will offer tips on how to maximize academic potential through physical fitness. All sessions begin at 5 p.m. in Room 334 of the University Centre.

The workshops are run by professional counselors in a group setting, with no registration required. □

AT GUELPH is published by the University of Guelph every Wednesday except during December, July and August, when a reduced schedule applies. *At Guelph* is guided by an editorial policy and an editorial advisory board. The policy is available on request at Ext. 3864.

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A break from the books. Fourth-year bio-engineering students Stefanie Au and Emil Breza take a break at the new coffee shop in the U of G Bookstore. An initiative of Hospitality Services, the shop opened in the fall semester and has been so successful, there are plans to move it upstairs and expand. It is open during bookstore hours. Photo - Kerith Waddington, University Communications

High fines are not the best way to control industrial emissions

by Helen Fallding
Office of Research

"Make polluters pay!" is a popular slogan in the environmental movement. But U of G researchers say high fines may not be the most effective way to enforce industrial emissions standards.

Profs. John Livernois and Chris McKenna, Economics, say the current system of low fines is working surprisingly well. That's because firms are more likely to admit their mistakes when the penalty is minor.

"We call this the truth-or-consequences strategy of enforcement," says Livernois. "Firms are let off easy if they are honest about a problem, while those that lie are punished."

Standard thinking has been that firms will only follow environmental regulations when it's cheaper to control emissions than pay fines. As a result, governments have been pressured to set fines high.

In fact, industry tends to comply with pollution standards even though fines are low (often less than \$3,000) and almost never imposed. Livernois says seven of nine major Ontario industries kept their emissions within legal limits more than 70 per cent of the time between 1986 and 1989. The situation is similar in the States.

Could it be that many firms are just good citizens? Livernois doesn't doubt that they are when it's profitable, but he says competition would eliminate those that are good citizens when it's not.

He says there's a missing piece in the standard enforcement model. Firms are often required to monitor and report their own pollution emissions. Those that claim to be following the rules are randomly inspected to ensure they're being honest. But when firms report emissions above the level set for their industry, they are fined. If the fine is large, that's a built-in disincentive to telling the truth.

"If you want to encourage lots of firms to comply with the standard, what you need to do is set high penalties for non-compliance," says Livernois. "On the other hand, if you want to encourage firms to file true reports, what you need to do is set the fine low. Firms aren't likely to file true reports if they're going to be severely penalized. So there's a trade-off."

According to Livernois and McKenna's model, the best en-

forcement policy is small or non-existent fines for polluting, combined with large fines or criminal charges for filing a false emission report. Under these circumstances, polluters find it cheaper to tell the truth immediately, which means they can be ordered to clean up their act right away. That protects the public from pollution that would otherwise not be detected until the next inspection. It also cuts down on enforcement spending.

Livernois and McKenna presented their model at a campus symposium on environmental management policy in January. They have also shared their findings at universities across the country and at a Calgary conference of the Canadian Resource and Environmental Economics Study Group. Livernois is director of U of G's PhD program in resource and environmental economics. □

February events mark Black History Month

Readings and a film by Dionne Brand, a poet, writer, director and former faculty member in the Department of English, will be one of the highlights of Black History Month celebrations on campus throughout February.

Also marking Pink/Black Triangle Day, Brand will read from her works Feb. 14 at 7:30 p.m. in Room 103 of the University Centre and show her 1993 National Film Board movie, *Long Time Comin'*. The talk is sponsored by the Pink/Black Triangle Day Committee, the Human Rights and Equity Office and the Central Student Association Human Rights Office.

Brand, whose most recent work includes *Bread Out of Stone*, a book of essays, and the soon-to-be-released book *In Another Place, Not Here*, has published several books of poetry, including *No Language is Neutral*. She has also directed three other NFB films.

Other Black History Month

events include a workshop, fashion show, concert and films. On Feb. 7, a student clubs display runs all day in Room 103 of the University Centre. The films *Black Women of Brazil* and *The Passion of Remembrance* will run from 10 a.m. to noon and 2 to 5 p.m. in UC 103. Discussion will follow. On Feb. 8, the film *Conjure Women* begins at 7 p.m. in UC 333. At 8 p.m., the Black Women's Society stages a fashion show and party in War Memorial Hall. Admission is \$10.

On Feb. 9, the Munford Centre Collective will lead a workshop on "Racialization" from 2 to 5 p.m. at the Munford Centre. At 7:30 p.m., law professor Anthony Iwok Chol, a member of the International Peace Research Association and Refugee Commission, will discuss "African Immigrants in Canada, Yesterday and Today." For a full listing of the month's events, see the weekly calendar in *At Guelph*. □

Alma Mater Fund selects flagship project for 1996

The Alma Mater Fund (AMF) has chosen as its flagship project this year the establishment of a multimedia learning centre in the University Library and the upgrading of the multimedia capability of existing facilities in several college microcomputer labs.

The AMF is committed to funding the project for one year with the option to renew for a second. Its donation will be assisted by the University's microcomputer budget.

Prof. Iain Campbell, provost and vice-president (academic), says he will work with the Vice-President (Academic's) Council and the committee that prepared the application to AMF to get an appropriate part of the project un-

der way when the AMF funds become available in early 1997. Campbell commended the committee, chaired by Prof. John Liefeld, *Consumer Studies*, for its successful efforts.

"We are determining at this point how to best move ahead and are in the process of identifying what University funds can be found to help bring this exciting project to fruition," says Campbell. "The support and interest of alumni in establishing multimedia learning facilities are greatly appreciated. This is a major assist in pursuing the learner-centred strategic direction of the University, as approved recently by Senate." □

Ontario tree atlas project needs 900 volunteers

by Margaret Boyd
University Communications

Wanted: 900 able-sighted Ontarians to identify and estimate tree populations in the province. No prerequisites required. Training provided.

So far, the Ontario tree atlas project, launched last year by the Arboretum and the Ontario Forest Research Institute to record the province's tree populations, has recruited 600 volunteers to collect data. But another 900 are still needed to adequately complete the job by June 1998, says project co-ordinator Rob Guthrie.

Regional co-ordinators have recruited volunteers from field naturalist clubs, horticultural societies, conservation authorities and the Ministry of Natural Resources. Volunteers may wish to participate in tree-identification workshops, and newsletters provide tips on identifying trees.

Each volunteer is given one or more 100-square-kilometre (10-km by 10-km) plots of land to cover and, for each square, a data card to record the tree species and their abundance. In the southern part of the province, there are 1,824 areas to cover; Northern Ontario contains at least triple that number.

In addition to volunteer data collection, the project will use existing satellite data for trees

to determine tree distribution. Funding is currently being sought to look at historical data.

All of central Ontario (Muskoka, Kawartha, Haliburton, Trent-Severn, Frontenac Axis, etc.) is especially in need, largely because there's so much area to cover, says Guthrie. "It takes about 30 hours of volunteer time to survey a 10- by 10-km area."

Although the project is looking at the distribution and relative abundance of trees in the province, it's possible that a species not previously known to exist in Ontario may be discovered or that populations of tree species may be found in unexpected areas, says Prof. Alan Watson, director of the Arboretum and project supervisor.

"The tree atlas will provide baseline data that is vital for making decisions in the future," says Guthrie.

Some 111 species are included on the list, but a volunteer in, say, Ottawa might only have to identify 35 or 40 of these because the rest aren't found in that part of the province. These species include all native species and about 20 introduced ones. Most are easily identifiable — only 12 species are considered difficult to identify, says Guthrie. To ensure accuracy, volunteers are required to submit samples and forms on species that are difficult to identify.

Species will vary throughout the three forest regions in Ontario — the Carolinian forest

zone confined to the southernmost part of the province, the Great Lakes/St. Lawrence forest zone, which comprises the middle section of the province, and the boreal forest to the north. Volunteers are also required to fill out special forms for rare species, most of which are confined to the Carolinian zone.

Abundance estimates of species are divided into three categories — fewer than 20 trees, 20 to 100 trees and more than 100 trees.

"From a historical perspective, the project will give us a snapshot of tree distribution and abundance from the turn of the century," says Watson. "If it had been done in the past, it might have given us an understanding of tree populations in Ontario, and it might have been helpful in determining the question of global warming."

Modelled after existing atlases on birds and mammals, the Ontario tree atlas project is being funded by a \$250,000 grant from the Ontario Forest Research Institute, which has also endowed a gene bank for Carolinian forest species at the Arboretum. If interested in becoming a volunteer with the project, call Guthrie at 519-824-4120, Ext. 3615, fax to 519-836-1855 or send e-mail to rguthrie@uoguelph.ca or awatson@uoguelph.ca. □

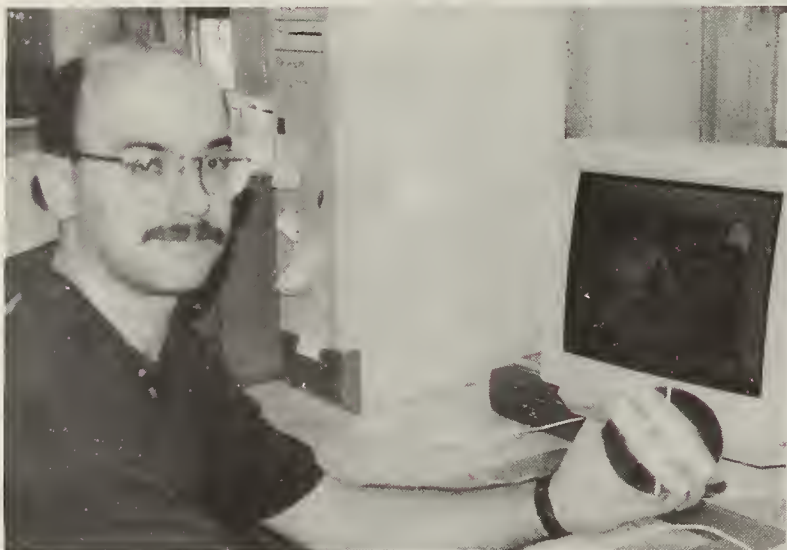
TSS offers workshops

Teaching Support Services is offering introductory Multimedia ToolBook workshops Feb. 7 and March 7 from 1 to 4 p.m. in Room 103 of the McLaughlin Library.

The workshop will include demonstrations of the software package and hands-on experience. Some knowledge of Windows is required.

To register, call Helen Martin at Ext. 2427 or send e-mail to hmartin@tss.uoguelph.ca. □

TEACHING & LEARNING



Scientific illustrator Ian Smith is part of a team working to create U of G's first CD-ROM course.
Photo - Margaret Boyd, University Communications

Zoology course a first on CD-ROM

by Margaret Boyd
University Communications

A team of artists, faculty, programmers and recorders has been hard at work for more than a year to create the first CD-ROM course in U of G's history.

The new course, "Introduction to Aquatic Environments," is the brainchild of Department of Zoology chair Paul Hebert (currently on administrative leave), who saw the need to match resources with student demand. The course replaces and expands the former zoology courses "Limnology and Oceanography" and "Aquatic Biology," which had

expensive laboratory and field components.

"The new course will match the field experience by simulating some of the same activities through CD-ROM," notes Prof. Denis Lynn, acting chair of the Department of Zoology.

Literally hundreds of hours have gone into writing and producing the new course, which will be offered through the Office of Open Learning in September 1996. As Prof. Gerald Mackie, who is teaching the course this semester, notes, the experience has been "a steep learning curve."

The learning curve has involved the production of 10 CD-ROM

modules that make up a major component of the course. The modules are, in effect, the textbook and will be used to replace learning in the field or lab.

"One of the things missing in the open-learning approach is the hands-on aspect," says Mackie. "We have to find ways of getting around it, to ensure that students are receiving the same quality of education."

The team involved in producing the new course includes two programmers, three or four artists, one sound recorder and numerous faculty. The process of creating one module is intensive. Storyboards are written by faculty with expertise in a given subject, then artists are consulted for layout and image ideas. After revisions are made and images are created and assembled with sound files, the information goes to the programmer, who packages it and bums it on to a CD-ROM disk.

Offers adaptability

One of the benefits of CD-ROM technology is the control it offers faculty and its adaptability for students, says zoology sessional lecturer David Barker, who is involved in the production side of the course. In addition, information can be easily updated.

"I think it's a very exciting approach," says Barker. "There is room for growth of CD-ROM courses, but I'm not sure if the resources will be there. There is a void in understanding how much work it takes to produce them."

Over the spring semester, the course will be revised and given increased interactivity for open-learning delivery. A market survey will be conducted to identify future non-traditional learners. The course is expected to be of interest to high school teachers wanting to upgrade their biological education.

Financial support for creating the course was provided by the Alma Mater Fund, the Office of Open Learning and the Department of Zoology. □

History ventures into open-learning courses

by Margaret Boyd
University Communications

Global interest in Scottish studies, the growth of the World Wide Web and student demand are fueling the development of open-learning courses in the Department of History.

Two courses in Scottish studies will be offered this spring in an open-learning format. "Celtic Britain and Ireland to 1066" and "Celtic Britain and Ireland from 1603 to Present" are being written for open learning by graduate students Scott McLean and Andrew Nicholls.

Two other open-learning courses are in the works. A unique course entitled "Urban History in Canada" that is using the Web is being offered as a regular course this semester and will eventually be offered through the Office of Open Learning.

The Web component of the course is receiving a favorable response from other urban historians and universities.

Prof. Gil Stelter is writing the course, graduate student Richard Gorrie is providing the hypertext mark-up language and scanning expertise, and graduate student James Calnan is creating a database on building-permit records in Guelph from 1860 to 1890 as a resource.

In addition, a course on environmental history is being written by Mary Ann Cyphers-Reiche and could be offered through the Office of Open Learning in the winter of 1997.

Better serve students

These ventures into open learning in a department that has not offered distance education for the past 10 years will better serve students, says department chair Prof. Eric Reiche. In addition to a growing external market for Scottish studies, students want access to open-learning courses during the spring semester.

As McLean notes: "Open-learning courses allow students to pick up extra courses while working, and they provide graduates with some employment."

Editor of the on-campus journal *Scottish Tradition*, Reiche believes the University's international strengths in the area of Scottish studies need wider recognition. "We have the best library collection outside Scotland, for instance," he says. "The problem is that people don't know it exists."

Recognition is growing, however. The Scottish Studies Foundation is providing financial assistance to help prepare and market the new courses and to support *Scottish Tradition*.

Future directions for Scottish studies might include forging relationships with Celtic studies at the University of Toronto or with Scottish institutions, McLean says.

Closer to home, the "Urban History in Canada" course will use the Guelph region as a basis for learning to read a community, says Stelter. The course aims to

outline the general concepts of studying a community, how to use available sources such as libraries and the methodology of studying one particular community.

"Nobody has put down in a detailed way how to study the urban community in Guelph," he says.

The World Wide Web component of the course will provide unique interactivity for students. Stelter will use his international connections in urban history to assemble a team of mentors who will communicate with students via e-mail and the Web on specific projects. The heritage community in Guelph, including the public library, the historical society and the museum, are interested in getting involved and will archive some of the student projects.

Not readily available

Ironically, the electronic component of the course is creating a delay in its accessibility because the technology is not readily available to all students, Stelter notes.

"As an open-learning course, it has real potential, but only when numbers are actually high enough to have access to the Web," he says.

After the course has been offered for the first time, he will present the results to the Canadian Historical Association.

The projected course on environmental history will be offered only through open learning. Although it will focus on the 19th and 20th centuries, it will also look at aspects of life in ancient Greece and Rome from an environmental perspective, space permitting. Such an approach should provide a long-range historical perspective and firmly establish the fact that environmental problems and an awareness of them are not just characteristic of the contemporary world.

Throughout, the course will explore the relationships among culture, technology and societal organization and the environment. Because environmental issues are of increasing concern, interest in the course is expected to be strong.

"Future development of open-learning courses in the department depends on demand," Reiche says. □

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GRAD NEWS

The final oral examination of M.Sc. candidate Stuart Admiral, Land Resource Science, is Feb. 16. The seminar is at 2:10 p.m. in Room 124 of the Richards Building, followed by the defence in Room 01B. The thesis is "Development of a Method of Determining the Ability of Biogenic Volatile Organic Compounds to Enhance Tropospheric Ozone Production." The adviser is Prof. Terry Gillespie. □

Congratulations to the winter class of '96

More than 800 students graduated during four ceremonies Feb. 1 and 2 in War Memorial Hall. Here are some of the highlights.

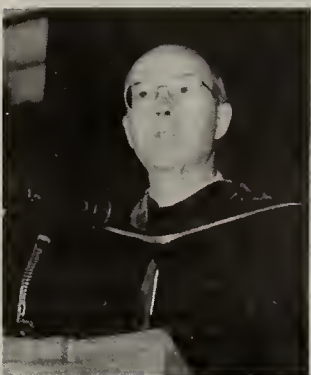
Photos by Martin Schwalbe and Kerith Waddington



New University professor emeritus Leonard Adams



Prof. Louis Christofides



Prof. Gordon Lange, winner of the John Bell Teaching Award



Honorary degree recipient Barry Tomlinson, left, accepts congratulations from chancellor Lincoln Alexander.

Make title meaningful

Getting a degree and acquiring a title must be correlated with performance if they are to be made meaningful.

That's what retired French studies professor Leonard Adams told graduates of FACS and the College of Arts at morning convocation Feb. 1, where he was named a University professor emeritus.

Offering graduates advice on how to validate their newly acquired titles, Adams suggested they develop a philosophy of life incorporating several ideas. He asked them to view their graduation as a beginning, not an end, and to cultivate a constant desire for intellectual stimulation.

"Experience has shown me that knowledge is power and the pursuit of it exciting," he says. "The excitement comes not only from eventual discovery, but also from travelling the road to discovery. Acquire knowledge, use it to bless the life of others, and your own life will never be marked by dullness and drudgery."

He also encouraged graduates to adamantly pursue their goals, accurately assess their talents and cultivate humaneness.

"Wear your title with grace, but as graduates of the University of Guelph, prepare to shoulder the responsibilities your title imposes by implication." □

Use education to face problems of the future

Critical faculties developed by a university education will enable graduates to face future problems capably and decide for themselves which arguments hold water, says Prof. Louis Christofides, chair of the Department of Economics.

Speaking to graduates of the College of Social Science at afternoon convocation Feb. 1, he said learning is a lifelong process. "And it is important to assimilate new knowledge on an ongoing basis to modify our view of the world. Let your spirits soar as you use the models of reason you have learned to meet new challenges and arrive at logical conclusions to the problems you will face."

In addition to the accomplishments of the new graduates, Christofides noted a second reason to celebrate — the 25th anniversary year for social science at U of G. □

Play an advocacy role for science, universities

The workplace is more demanding than ever, but a U of G education in 1996 will stand graduates in good stead, says Prof. Gordon Lange, Chemistry and Biochemistry, winner of this year's John Bell Teaching Award.

Speaking to graduates of OAC and CPES at morning convocation Feb. 2, Lange compared today's workplace with the one he entered 30 years ago. There are fewer full-time permanent positions available, he said, and people must be extremely flexible in their job searches. General skills and the ability to communicate are more highly valued than ever before, he said, but he expressed optimism that the broadly based scientific education received by those graduating would keep them competitive.

Lange stressed the importance of using one's education to play an advocacy role. "Science is becoming increasingly important in our everyday lives, so we need individuals who are willing to speak out on such issues as the greenhouse effect, the ozone hole, peaceful uses of atomic energy and more," he said. "You graduates have expertise in these areas, and I urge you to express your opinions in various forums."

Lange concluded by expressing hope that graduates would also become advocates of the university system and U of G in particular. □

Education makes a difference

The difference is education. That's what biologist and honorary doctorate of science recipient Barry Tomlinson told graduates of the College of Biological Science and OVC at afternoon convocation Feb. 2.

Education will make a difference in the lives of graduates and their communities as a whole, said Tomlinson, who congratulated the graduates for all they have achieved and welcomed them into the larger educated community.

He also thanked U of G for granting him an honorary degree.

"Botanists are a modest and patient breed of scientist whose work is important because plants are the foundation of all food chains, and knowledge of plants is the basis for agriculture, forestry, pharmaceuticals and floriculture," he said. "I speak on behalf of all botanists in accepting this honor bestowed on me in an exemplary gesture of appreciation." □



Convocation clerk Tricia Halley proudly displays the BA degree she earned after attending classes for 12 years on a part-time basis.

Convocation clerk receives BA degree

by Kerith Waddington
University Communications

Slow and steady wins the race. Or gets the degree, if your name is Tricia Halley.

Convocation co-ordinator in the Registrar's Office since 1990, Halley has also been attending classes in the College of Arts for 12 years on a part-time basis. Her perseverance paid off Feb. 1 when she walked the stage at convocation not to hand someone else a degree parchment but to receive her own — a BA in English.

Halley, who received the Donald Webster Memorial Scholarship (for part-time students with the highest accumulative average) in 1995 and has been on the dean's honors list twice, has had a sterling scholastic record.

But she's also had fun.

"Attending university was a personal goal I had years ago but never thought I would attain, so this is a particularly proud moment," she says. "I've always enjoyed literature, but attending classes and studying theory has helped me glean more from what I read, both in terms of the text itself and personal insights. It has been very satisfying."

Entering the classroom as a mature student and speaking out in seminar presentations was the most challenging aspect of returning to school, says Halley, but the support of her family (she is married with four children) and the younger students who always welcomed her input went a long way towards building her confidence.

"In the classroom, I was seen not as a mother or a wife but simply as a person, a scholastic equal," she says. "It was a terrific feeling and enabled me to define myself in a new and exciting way."

Stepping up to the podium Thursday, Halley continued a growing family tradition of involvement with U of G. Her eldest son graduated with a master's in computer science in 1993, and her husband is well on his way to a degree in settlement studies.

Halley says her family is both proud and relieved that she is done, but if they think they'll see more of her as a result, they may be surprised.

"I've just signed up for tai chi lessons and hope to take vocational and language courses as well as do some volunteer work. But first of all, I plan to catch up on my personal reading list!" □

Community

NOTICES

Entomological e-mail

U of G and the Entomological Society of Canada have launched an electronic mail bulletin board available worldwide. Topics range from insects in art and poetry to the problems of cockroach control in tropical kitchens. The e-mail address is entomo-1@uoguelph.ca.

Arboretum workshops

Horticulturist Henry Kock will lead a five-session series on home

gardening beginning Feb. 19 from 7:30 to 9:30 p.m. at the Arboretum. Cost is \$50. Payment is required by Feb. 12. Kock will also lead practical workshops on pruning in the home garden March 14 and March 16 from 1 to 4 p.m. Cost is \$25. Register by March 6.

Farewell party

A reception will be held Feb. 13 for Larry Porter, head of automation and technical support in the U of G Library, in recognition of his more than 29 years in the Univer-

sity community. It runs from 4 to 6 p.m. in the University Club on Level 5 of the University Centre. Cost is \$10. RSVP by Feb. 8 to Bev Kostal at Ext. 2159.

Office professionals meet

The Guelph chapter of the Association for Office Professionals will meet Feb. 14 at the College Inn. Dinner is at 6 p.m., followed by a talk on "Income Tax: The Form." Guests are welcome. For more information, call 767-2590.

VON needs volunteers

The Victorian Order of Nurses visiting program is looking for volunteers to help alleviate the isolation and loneliness of elderly or disabled individuals. For information, call Katherine at the VON office at 822-5081.

Valentine tea

Guelph Museums invites you to a Valentine Tea at McCrae House Feb. 14 at 2 p.m. Tickets are \$5 per person. Reservations are required. Call 836-1221 for information.

Shyness study

Mothers who are interested in talking with a psychology graduate student about the shy behavior of their preschoolers (ages four to five) and their strategies for managing them can call Shelley Wamke at 837-0347. She is working under the supervision of Prof. Mary Ann Evans.

Professional development

The Office of Open Learning will offer professional-development courses for the Canadian food-service manufacturing industry in April. Sessions focus on account management April 15 and 16 and marketing management April 18 and 19. Cost of each course is \$825. To register, call 767-5000.

Couples sought

Family studies PhD student Rachel Berman is doing her thesis on intimacy and is looking for common-law/married couples to talk with for a total of two hours. Any interested couples can leave a message with her supervisor, Prof. Joan Norris, at Ext. 3782.

Celtic harp concert

Mary Anderson performs on Celtic harp with Ken Brown on guitar and flute Feb. 24 at 8 p.m. at the Arkell Schoolhouse Gallery. Cost is \$10. To reserve tickets, call Peter Ysselstein at 763-7528.

Herpes support group

A support group for people living with herpes meets every other Monday at the Guelph Community Health Centre. Anyone who has been diagnosed with herpes is welcome to attend. For more information, call the University's Wellness Centre at Ext. 3327.

Women of Distinction

The YMCA-YWCA of Guelph and Wellington is accepting nominations for its first Women of Distinction Awards, presented to individuals who have made a unique contribution to the advancement of women through their paid or volunteer work. Nomination deadline is March 15. Nomination packages are available at the Guelph YMCA-YWCA. For more information, call Irene Brenner at 824-5150.

Black History Month

Guelph Museums will celebrate Black History Month with an exhibit called "Searching for Your African/American/Canadian Roots" at the Guelph Civic Museum until Feb. 29. The exhibit will be open Sunday through Friday from 1 to 5 p.m.

Valentine dance

The Guelph Distress Centre is hosting a Valentine Dance Feb. 10 at Guelph Place, 492 Michener Rd. A cold buffet starts at 7 p.m., followed by dancing to the music of Watt's D.J. Services at 9 p.m. Tickets are \$15 each or \$28 per couple and can be purchased at the Holiday Inn.

Star Trek nights

Guelph Museums and the Guelph Star Trek Club presents "Alien Makeovers" Feb. 8 from 7 to 9 p.m. and a panel discussion on "What Makes Star Trek a Phenomenon?" March 6 from 7 to 9 p.m., both at the Guelph Civic Museum.

Strange invasion

The Waterloo/Laurier/Guelph Centre for East European and Russian Studies presents a talk by Prof. Fred Eidlin, Political Studies, on "Strange Invasion: Czechoslovakia in the Light of New Documentary Materials" Feb. 14 at 7 p.m. in the boardroom of Wilfrid Laurier University's library. □

CLASSIFIEDS

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Three-bedroom home, prime residential location, large living room, eat-in kitchen, fireplace in dining room, four-car driveway, rec room, 763-2824.

Two-bedroom apartment, parking, walking distance to Willow West Mall, looking for long-term tenant, non-smokers, no pets, available April 1, references, \$502 a month plus utilities, Ext. 3561 or 821-5412 after 5 p.m.

Three-bedroom furnished home near Exhibition Park, available Aug. 1 for one year, date negotiable, \$1,150 a month plus utilities; furnished basement suite of rooms, available Aug. 1, gas fireplace, \$500 a month inclusive, Ext. 2169 or 763-0221.

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Furnished three- or four-bedroom home, hardwood floors, fireplaces, two sunrooms, deck, porch, large partly fenced yard, laundry, parking, near Elora Gorge and swimming quarry, available March to July 1996, \$700 a month inclusive, 787-0609.

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Bungalow in old University area, 1,400 square feet, paved drive, carport, new roof, fireplace, gas heat, central air, fenced yard, possibility of income through rental of two-bedroom basement apartment, Kim, 836-0737.

Four-bedroom home in old University area on quiet cul-de-sac, four baths, two fireplaces, fenced yard, high-efficiency gas, partially finished basement with walkout, 767-1519.

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JOBS

As of Feb. 2, the following opportunities were available:

Research Assistants/Technicians, Canadian Network of Toxicology Centres, temporary part time until June 30/96. Salary: \$10.18 to \$11.36 an hour. Removal date: Feb. 7.

Pharmacy Administrator, Veterinary Teaching Hospital. Salary: \$42,960 minimum, \$50,478 normal hiring limit, \$53,700 midpoint. Removal date: Feb. 7.

Postdoctoral Fellow, Department of Crop Science, grant position. Salary commensurate with

experience. Removal date: Feb. 9.

The following position was available to on-campus employees only:

Nursing Care Administrator, Veterinary Teaching Hospital. Salary: \$42,960 minimum, \$50,478 normal hiring limit, \$53,700 midpoint. Removal date: Feb. 7.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □



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Saturday 9:30-5:00 p.m.

CALENDAR

THURSDAY, Feb. 8

Information Meeting - A discussion of Guelph University Alumni Research Development Inc. begins at 9 a.m. in UC 442 for members of OAC and at 1 p.m. in OVC 1715 for members of OVC.

Pathology Seminar - Graduate student Jean Paré discusses "Vaccination of Raccoons Against Canine Distemper: An Experimental Study" at 11:10 a.m. in Pathology 2152.

Canadian Studies Lecture - Barry Duncan of the Association for Media Literacy discusses Reading Pop Culture: From Malls to Michael Jackson" at noon in MacKinnon 226. Cost is \$15. To register, call Ext. 3064.

Fine Art Film Series - Kika Thorne, a Toronto experimental filmmaker, discusses her work at noon in Zavitz 320. At 6:30 p.m. at the Macdonald Stewart Art Centre, she will introduce three films as part of the series "Images of Self and Nation in Canadian Experimental Film and Video."

Concert - The Andrew Klachn Quartet performs at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - The Counselling Unit offers a session on "Dealing With Anxiety Through Relaxation, Meditation and Yoga" at 5 p.m. in UC 334.

Black History Month - The film *Conjure Women* will be shown and discussed from 7 to 9 p.m. in UC 333. The Black Women's Society hosts a fashion show and party at 8 p.m. in War Memorial Hall. Admission is \$10.

FRIDAY, Feb. 9

Human Biology/Nutritional Sciences Seminar - Renée Roach considers "Interaction of Zinc and Epidermal Growth Factor on Esophageal Morphology in the Rat" at 11:10 p.m. in Animal Science/Nutrition 141.

Black History Month - Members of the Munford Centre Collective will lead a workshop on "Racialization" from 2 to 5 p.m. in the Munford Centre. Law professor Anthony Iwok Chel, a member of the International Peace Research Association and Refugee Commission, discusses "African Immigrants in Canada, Yesterday and Today" from 7:30 to 9 p.m. in MacKinnon 117.

MONDAY, Feb. 12

Information Meeting - A discussion of Guelph University Alumni Research Development Inc. begins at 10 a.m. in UC 103 for members of the College of Arts, CSS and University support staff and at 1 p.m. in UC 103 for members of CBS.

TUESDAY, Feb. 13

Teleconference - Dr. Richard Keeling of the University of Wisconsin, Madison, discusses student health in an interactive teleconference called "Get Real!" from 12:45 to 4 p.m. Cost is \$25 general, \$15 for students. To register, call Ext. 4333.

Chemistry and Biochemistry Seminar - Prof. Stephen Cunnane of the University of Toronto will outline "In Vitro and In Vivo ¹³C NMR Studies of Long-Chain Fatty-Acid Metabolism" at 2:10 p.m. in MacNaughton 222. To talk with Cunnane, call Prof. Fred Brauer at Ext. 3795.

WEDNESDAY, Feb. 14

Third Age Learning - The lecture series for retired people continues with Prof. Neal Stoskopf, Crop Science, discussing "Who Will Feed China?" at 10 a.m. and Prof. Harry Lane, Drama, examining "Rashomon" by Fay and Michael Kanin" at 1:30 p.m. Lectures are at the Arboretum Centre.

Black History Month - Poet, writer and director Dionne Brand will read from her works at 7:30 p.m. in UC 103. Her film *Long Time Comin'* will also be shown. A Valentine's Day Dance begins at 9:30 p.m. in the Bullring.

THURSDAY, Feb. 15

Pathology Seminar - Graduate student Karnie Rose examines "Comparative Evaluation, Cooling and Cryopreservation of Silver Pheasants (*Lophura nycthemera*) and Edwards' Pheasant (*Lophura edwardsi*) Semen" at 11:10 a.m. in Pathology 2152.

Concert - Pianist Flavio Varani performs at 12:10 p.m. in MacKinnon 107. Admission is free.

French Studies Lecture - Nicole Pellegrin of the Institut d'histoire moderne at the Centre national de

la recherche scientifique in Paris will discuss "Le couvent et la féminisation des travaux d'aiguille: France/Canada (17e-19e siècle)" at 4 p.m. in MacKinnon 234. The lecture will be given in French. A discussion period will follow in English and French.

Workshop - The Counselling Unit hosts a session on "Balancing Your Act" at 5 p.m. in UC 334.

Black History Month - The African Students Association is sponsoring a film at 5:30 p.m. in UC 004.

Fine Art Film Series - Prof. Gerta Moray introduces "Images of Self and Nation in Canadian Experimental Film and Video" at 6:30 p.m. in the Macdonald Stewart Art Centre.

FRIDAY, Feb. 16

Evolution and Systematics Seminar - "Evolution of the Bacterial Genome" is the topic of Howard Ochmann of the University of Rochester at 3:10 p.m. in Axelrod 259.

SATURDAY, Feb. 17

Theatre - Theatre in the Trees presents *The Hand That Cradles the Rock*, a comedy by Warren Graves, Feb. 17 at the Arboretum Centre. Buffet is at 6:30 p.m.; showtime is 8 p.m. Tickets are \$39 plus GST at the UC box office, Ext. 4368.

Concert - Baroque music and a premiere of a new trio by John Armstrong begin at 8 p.m. at the Macdonald Stewart Art Centre. Admission is \$10 general, \$6 for students and seniors. For ticket information, call the Department of Music at Ext. 3127.

WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □

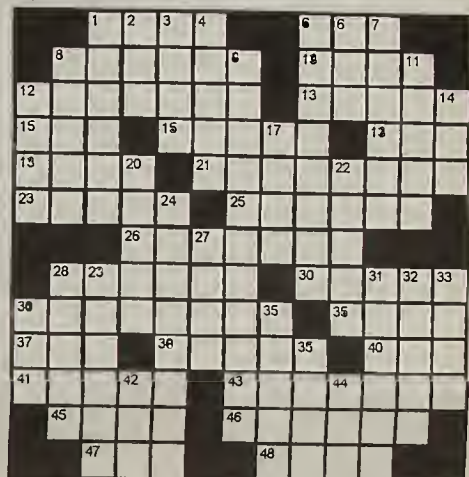
WEDNESDAY, Feb. 21

Third Age Learning - The lecture series for retired people continues with David Campbell discussing "China's Environmental Policy: Impediments to Implementation, Present and Past" at 10 a.m. and Prof. Alan Filewod, Department of Drama,

examining "Marsh Hay" by Merrill Denison" at 1:30 p.m. Lectures are at the Arboretum Centre.

Biochemistry Seminar - Ann Chambers of the University of Western Ontario discusses "Osteopontin: Regulation and Function in Malignancy" at 12:10 p.m. in MacNaughton 222.

Canadian Criss Cross by Walter D. Feener



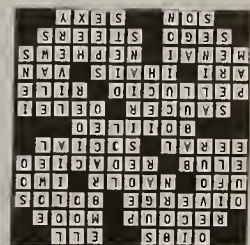
ACROSS

1. Have claims on
5. Building extension
8. Make up for a loss
10. Subject to discussion
12. Deviate
13. Philippine knives
15. Alien craft
16. Lowest point
18. Jima
19. Bungle a job
21. Edited
23. Savage
25. Gregarious
26. Put in jars
28. Cup's companion
30. Glazed earthenware
34. Transparent
36. Anger
37. Onassis' nickname
38. Alexander the Great's mistress
40. Actor Johnson
41. Wales Strait
43. Huey, Dewey and Louie to Donald
45. Mariposa lily
46. Heads for
47. Second person

of the Trinity
48. Describing pin-ups

DOWN

24. Phrase
27. High-
28. Successions of plant communities
29. Straights
31. Servant's uniform
32. Defects
33. Cardinal numbers
34. Game like Napoleon
35. Counts calories
39. Graf
42. Back when
44. Jinx
1. Eat up greedily
2. Chill a drink
3. Nee
4. Saccharose
5. Greeted affectionately
6. British lavatory
7. Peter Sellers movie
8. Ransack
9. Walkers
11. Drying cloth
12. Boiled pudding
14. The Old (Ireland)
17. Object of infatuation
20. Tree yielding gum
22. Apple juice



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COMMENTARY

Human rights initiatives must proceed despite pressures

by Prof. Janet Wood,
Microbiology and
Prof. George Renninger,
Physics

During the past decade, U of G has addressed a number of human rights issues and implemented several human rights initiatives. The campus offices responsible for carrying out existing policies and procedures are being reorganized under the supervision of the director of human rights and equity, Ralph Agard.

In the Dec. 13 *At Guelph* article "Working Group Will Draft Human Rights Policy," Agard noted that a comprehensive human rights policy is under development, which will apparently replace existing policies and procedures. Recent articles and letters to the editor in the *Ontario* and *At Guelph* indicate that, as the University enters this new phase of human rights work, it's important to review existing initiatives in terms of their goals, the support offered to them by students, staff, faculty and the administration, and their outcome.

The following comments are based on the experiences of Prof. Janet Wood as employment and educational equity co-ordinator from 1989 to 1991 and Prof. George Renninger as sexual harassment adviser from 1990 to 1992, as well as on subsequent events and published documents. We hope these comments will alert members of our community to the urgent need for their participation in broadly based, open discussion of human rights issues and in action with respect to human rights infringements.

As a basis for this discussion, we have prepared a chronology and brief account of Guelph's human rights initiatives. We would be happy to make it available to those who are interested.

Any policy developed by the University, as noted in the Dec. 13 *At Guelph* article, must rest ultimately on and be consonant with the Canadian Charter of Rights and Freedoms and the Ontario Human Rights Code, which prohibit discrimination on the basis of race, national or ethnic ori-

gin, color, religion or creed, sex, age or disability. In addition, the Ontario Human Rights Code prohibits discrimination on the basis of ancestry, citizenship, sexual orientation, record of offences, marital status or family status.

Both recognize systemic discrimination—the discriminatory effects of societal or institutional structures—as a human rights issue. They expressly permit special programs designed to alleviate the disadvantage of specific individuals or groups that is clearly attributable to individual or systemic discrimination.

Whether or not specific policies concerning human rights have been developed and adopted by U of G, its employees, students and administrators of the University, like all other citizens, are obliged to adhere to the provisions of the charter and the code. Board of Governors and the administration are expected to bear special responsibility for the prevention and redress of individual and systemic discrimination in employment, Senate, academic administrators and faculty are expected to bear special responsibility for the prevention and redress of individual and systemic discrimination in the University's educational programs.

The criterion for violation of or adherence to our human rights provisions is outcome; intention to discriminate or not to discriminate is not at issue.

As of December 1995, U of G had developed and implemented policies and procedures concerning sexual and gender harassment, employment equity, the accommodation of people with disabilities, and research misconduct. The sexual and gender harassment and research misconduct policies and procedures had been adopted by B of G; the others had not.

Despite intensive effort by a University task force in developing an anti-racism and race-relations policy and procedure, its widespread discussion and its acceptance for information by Senate, no policy had been adopted.

Much of the current discussion concerns the University's human

rights practitioners (such as the sexual and gender harassment and human rights advisers and employment equity consultants) and the organization of their offices. We agree with those who consider these issues central to the University's progress in human rights issues and offer these comments on experience gained during the last decade.

Despite notable exceptions, many of our institutional human rights practitioners have been people like us who were seconded from other secure and well-compensated institutional positions, but who had little experience or training related to human rights principles and practice. Those of us who were faculty retained the security associated with established academic careers and tenure.

In contrast, many of the human rights practitioners recruited to short-term positions with much more limited compensation have had extensive experience and knowledge. We can't condone the exploitation inherent in placing committed, expert individuals on the front line of human rights initiatives with inadequate institutional support and compensation.

Having had little training or experience ourselves in the areas for which we had some responsibility, we believe that specific and extensive experience and knowledge are essential to success in addressing the profound and diverse human rights issues that exist at universities. We therefore endorse the recruitment of people with both pertinent experience and dedication to lead the institution in this critical area.

Our experience also underscores the need for continuing education regarding human rights principles and practice of faculty, staff and students, including those who are assigned direct responsibility for human rights initiatives.

To be effective, human rights practitioners must elicit behavioral and structural change by challenging the assumptions on which the daily lives of individuals and institutions are based. This requires courage because it inevitably elicits resistance. Prac-

tioners are often exposed to assaults on their qualifications and activities that they can't defend themselves against. This arises, in part, because of the confidentiality of their work.

If institutional employees are to sustain such work, they require institutional support and independence from undue institutional control. A delicate balance must be achieved between the absorption of human rights practitioners into institutional management (which offers occupational security and institutional support) and the maintenance of independence. The need to address diverse modes of discrimination also complicates the delivery of human rights programs.

Despite the challenges inherent in implementing human rights procedures, the efforts of Guelph's human rights practitioners have been regarded highly by members of our staff, student body and faculty. Policy goals have often been achieved by resolving complaints at the lowest possible level of conflict. Human rights practitioners have repeatedly reported that their workloads made it difficult for them to meet requests for educational programs. We regard these experiences as indicating both the success of past programs and the need for their stronger institutional support.

The means to create and sustain institutional human rights initiatives have been the subject of much discussion. The President's Advisory Committee on Sexual and Gender Harassment, for example, recommended the development and establishment of a human rights office in its 1991/92 annual report. The committee also recommended that, in conjunction with the Employment and Educational Equity Office and student governments, the University "investigate various models of a human rights office and develop an appropriate proposal for this campus."

"Umbrella" offices have been developed at other universities to deal with the whole range of complaints about behavior proscribed by the Ontario Human Rights Code. At least three models for these offices exist—the "federal" structure, the "confederal" structure and the "international organization" structure.

Experience at other universities with the "federal" structure, in which all anti-discrimination initiatives and advocacy groups are completely integrated into one office with a small number of staff, indicates that it should be avoided at all costs. That structure led to

ineffectiveness in dealing with complaints because of time spent by the various groups competing with each other for inadequate resources, support services and office space. The other structures appear to have been more effective. (See "The Institution: Challenging Institutional Insecurity and the Fear of the Human Rights Umbrella" by Jennifer Tiller of Carleton University, presented at the annual meeting of the Canadian Association Against Sexism and Sexual Harassment Everywhere.)

What about the future of human rights work at the University? The following are our views on some of the issues we consider to be critical in the immediate future.

- The University should ensure that current policies, which have been tested thoroughly, are incorporated into the human rights policy currently under development. This should be done on the basis of input from practitioners, clients and other members of the University in open meetings.

- The University should, without any further delay, adopt and implement an anti-racism and race-relations policy and procedure based on the report of the President's Task Force on Anti-Racism and Race Relations, incorporating the adopted policy and procedures into the new human rights policy as it is developed.

- Procedures for the formulation, adoption and implementation of the University policy on human rights should be publicized and widely discussed, particularly in view of opinions expressed recently by the U of G Faculty Association executive.

- Plans for the structure and operation of the University's Human Rights and Equity Office should be publicly presented and widely discussed before further implementation.

- The Women's Resource Centre and the Munford Centre, both created by students, should be supported by the University administration and permitted to operate without interference.

We live in a time of powerful reaction to human rights initiatives. This reaction and the severe financial pressures the University is experiencing must not be allowed to curtail the human rights initiatives begun here.

We hope our perspectives and desires for the future will lead to constructive discussion, understanding and action on these issues. □

AWARDS

OVC Pet Trust Fund has provided the following support:

- \$7,000 to Prof. Brenda Bonnett, Population Medicine, for "A Critical Review of the Literature on Alternative Medicine";
- \$5,763 to Prof. Joanne Cockshutt, Clinical Studies, and \$4,000 to graduate student Cheryl Tano to study "The Use of Force-Plate Analysis for the Long-Term Assessment of Dogs Treated for Canine Hip Dysplasia with Triple Pelvic Osteotomy vs. Femoral Head and Neck Excision Arthroplasty";
- \$8,000 to Prof. Peter Conlon, Biomedical Sciences, for his work on "Basic and Clinical Pharmacology of the Analgesic and Anti-Inflammatory Drug Ketorolac in Dogs";
- \$7,210 to Prof. Brenda Coomber, Pathology, for the project "Blood Vessel Density in Canine Osteosarcomas as a Predictor of Metastatic Behavior";
- \$1,600 to Prof. Andrew Luescher, Population Medicine, for "The Treatment of Compulsive Disorders in Dogs: A Clinical Trial of Clomipramine";
- \$6,000 to Prof. Karol Matthews, Clinical Stud-

ies, for a "Comparative Evaluation of Bedside Coagulation Tests and Coagulation Profiles for the Diagnosis of Disseminated Intravascular Coagulation in Dogs and Cats" and \$4,050 to study "Magnesium Sulphate Prophylaxis in Prevention of Ventricular Arrhythmias";

- \$1,634 to Michael Taylor, Veterinary Teaching Hospital, for "Fluoroscopic Examination of the Motility of the Psittacine Proventriculus and Ventriculus";
- \$41,500 to Prof. Julie Yager, Pathology, for an "Investigation of Specific Defects in Canine Demodicosis";
- \$10,000 to Prof. Gordon Kirby, Biomedical Sciences, for "Development of an In Vitro Assay to Predict Sensitivity of Canine Tumors to Anti-Cancer Drugs"; and
- \$4,600 to Prof. Owen Slocumbe, Pathology, for his work on "Transmission Period for Heartworm in Canada." He also received \$48,360 from Bayer Inc. for the project "Dose Titration of Praziquantel Paste for Efficacy for *Anoplocephala perfoliata* in Equids" and \$31,247 from Cyanamid for a "Moxidectin Oral Gel Protocol." □

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AT GUELPH

40th
Year

Volume 40 No. 6

University of Guelph, Guelph, Ontario

February 14, 1996

AT A GLANCE

They're off and running. The following people are running for two seats on Senate reserved for permanent full-time members of the University's non-teaching staff: Andre Auger, Counselling and Student Resource Centre; Annette Blok, Board Secretariat; Klaus Fabich, Psychology; Wendy Johnson, U of G Library; Sam Kosakowski, BA Counselling Office; Gilian MacPherson, OAC Dean's Office; Toni Pellizzari, CBS Dean's Office; Jim Rahn, Veterinary Teaching Hospital; and Dave Robinson, Biomedical Sciences. The term of office is three years, effective Sept. 1. Ballots have been distributed and must be returned to the Senate Office by Feb. 23. The election results will be published in *At Guelph*.

Committees open to non-senators. Faculty don't have to be members of Senate to get involved in policy changes... page 3

A breeding breakthrough. North America's first piglets produced from oocyte transfer have been born at U of G... page 4

What's the health risk? Statistical data help evaluate health hazards associated with food, water and air... page 5

The commentary page. Nancy Schmidt of the Learning Resource Centre explores a learner-centred approach to improving teaching and learning... page 8

Thought for the week

Is not this the true romantic feeling — not to desire to escape life, but to prevent life from escaping you?

Thomas Wolfe



You gotta have heart! Valentine's Day can make spirits — end voices — soar. The local quartet Ovation is delivering singing Valentine's today to unsuspecting people on campus and in the area. In front are Lynne Crellin, left, and Ruth Sproule of University Communications. In back are Kethy Hanneson, co-ordinator of the College of Arts Media Centre and a 1978 Guelph graduate, and Jenn Green, a recent MA grad of the Department of History. Photo - Kerith Waddington

University to adopt wet/dry recycling

by Kerith Waddington
University Communications

Waste not, want not.

U of G is putting that slogan to good use as it works towards full-scale implementation of the City's wet/dry waste-management program on campus by April 1.

Already under way in about 30 University buildings, the program — geared towards prolonging the life span of area landfills by reducing the amount of waste sent there by at least 50 per cent — will soon be campus-wide.

Participation by U of G and other members of the industrial,

commercial and institutional sectors comes on the heels of a successful residential implementation in the fall.

With the University sending about 41 tonnes of waste to the landfill each week, its participation stands to make a weighty contribution to this pilot North American project, says U of G waste-management co-ordinator Alex Hall.

"It's exciting that we are playing a part in introducing state-of-the-art waste-management techniques to North America," says Hall. "Guelph has always been

See WASTE on page 3

Application statistics encouraging for fall

by Margaret Boyd
University Communications

Preliminary data on university applications for fall '96 from the Ontario University Application Centre show that U of G is holding its own with an overall increase of 0.1 per cent and that the number of applicants who named Guelph as first choice is up by 0.7 per cent.

President Mordechai Rozanski says he's very encouraged by these figures, which were released last week to the province's publicly funded institutions.

"Early indications are good," says deputy registrar Chuck Cunningham, but he stresses that the data are only "preliminary" and that many factors could change the existing situation. Final data from the application centre will be available in late February, although students can amend their applications over the next few months.

The preliminary data are important because they indicate that Guelph appears to be bucking the provincial and national trends in declining enrolment, says Rozanski. "Everyone expected our applications to be down because we are a residential institution. In difficult financial times, students tend to enrol at a university close to home."

The increase in total applications to Guelph as well as in the number of first-choice applicants

indicates that students are still attracted to U of G for its solid academic reputation and a fees and residence package that is good value for the price, he says.

The Liaison Office is still hard at work recruiting the fall '96 class. An aggressive liaison campaign this year includes more visits to secondary schools, a new admissions handbook, a liaison page on the World Wide Web and expansion of Fall Preview Day.

During the February break, student ambassadors will visit more than 120 secondary schools. In March and April, information nights will be held in Toronto, Sarnia, Oshawa and Barrie. For the first time, an information night will be held on campus for area applicants and their families. Planning for the campaign began a year ago in recognition that competition for students would be high, Cunningham says.

"Guelph remains a popular choice because of the quality of our academic programs, commitment to research and our friendly and supportive community," he says. "The tremendous support the Liaison Office continues to receive from faculty, staff, students and alumni is the reason for any success we have."

The application statistics are encouraging for U of G's enrolment projects and, as a result, for budget planning, Rozanski says. □

Town hall meeting

The University community is invited to a meeting

"BUDGET SHORTFALL AND THE PROPOSED SOLUTIONS"

Thursday, Feb. 15, noon to 1:30 p.m.

Peter Clark Hall, University Centre

with

President

Mordechai Rozanski

Provost and Vice-President (Academic)

Iain Campbell

Vice-President (Finance and Administration)

Nancy Sullivan

Assistant Vice-President (Finance)

John Miles

Supervisors are encouraged to allow staff time to attend the complete meeting where possible. Anyone unable to attend at noon can attend a 5 p.m. meeting for students in Peter Clark Hall or a 10:30 p.m. meeting for night staff in Room 105 of the MacNaughton Building.

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STUDENT SPEAK

Elections, referendums under way

by Joanna Von Felkerzam

Elections for Central Student Association (CSA) commissioners, board representatives and Student Senate Caucus are running throughout this week. Undergraduate students are also being asked to vote on three referendum questions.

In a bus pass referendum, students are being asked to vote in a 50-cent fare increase and eliminate all bus pass refunds. The increase is needed because the Guelph Transit Commission is facing a cut of \$230,000 this year, says Brian Smith, CSA local affairs commissioner. All regular bus fares increased 15 cents this week, even for seniors.

Smith notes that the CSA has a two-year contract with the GTC, and any bus pass increase above the cost of living must be approved through a referendum.

A second referendum involves an additional 93-cent contribution to the campus radio station, CFRU 93.3 FM, which is run by close to 200 community and campus volunteers. With new equipment and massive technical repairs required at the station, its existence is in jeopardy because of inadequate funding, says Sue Forrest, CFRU's promotions and advertising co-ordinator.

The station was established 30

years ago by student volunteers, who eventually shaped it into the alternative music and media station it is today, and the staff now fear that lack of student support will close it down, she says.

Forrest notes that the station provides several important services to the community, including free volunteer training in technical, broadcasting, interview, research and promotional fields. The station also serves as an open resource/research centre and offers unique Spoken Word archives, which cover local, national and international topics.

The CFRU semester fee is refundable.

The third referendum involves a \$2.50 semester fee for human rights activities. This money would go towards sponsoring CSA awareness events such as BGLAD, Anti-Racism Week, International Women's Week and the Dec. 6 Memorial, says CSA spokesperson Lance Morgan.

"In addition, we are looking to hire a full-time staff person to act as an advocate for human rights on campus," he says. The University's Human Rights and Equity Office handles complaints, he says, "but we want to have someone lobbying on behalf of students and providing emotional support and guidance during a

difficult period when someone is lodging a complaint. We also want to ensure that we have consistency in our human rights projects, that our own policies are advanced as well as the University's — with students in mind."

Morgan stresses that this would not be a duplication of services already in place on campus. "We're looking at things that are not currently being done by the University," he says. □

OMAFRA sets another deadline for pest research

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) has announced another deadline for its Food Systems 2002 pest-management research program. The program is designed to reduce pesticide use while maintaining competitive crop production, sustainable farms and effective pest control at reasonable cost.

The deadlines for short-term projects, for which funding will not exceed \$15,000 per project, are March 22 to the Office of Re-

search and March 29 to OMAFRA. Proposals should be no longer than six pages.

For long-term projects, which can be funded for up to \$50,000 a year for two or three years, the deadlines are March 8 to the Office of Research and March 15 to OMAFRA.

Descriptions for projects are available in Room 224 of the Office of Research. For more information, call Barbara Leachman at Ext. 8761. □

LETTERS

Strength in pathology will continue at OVC

I am delighted to learn of Leon Saunders's interest in the fate of the discipline of veterinary pathology at OVC. I agree entirely with his assessment that the Department of Pathology "has become second to none during its last decades," and I am pleased to reassure him on several counts.

It may well be true that "those who are not disposed to read history must be prepared to repeat it," but it is equally true that those who believe they cannot deviate from patterns that were successful in the past are doomed to be left behind. Microbiologists have

long given up the enormous stultifying power they appeared to wield over pathologists, so this is not an issue for the Department of Pathobiology.

The rigid discipline boundaries that existed in the past have given way to a new era in science in which multidisciplinary approaches are proving to be highly effective. Indeed, researchers in the Department of Pathology have for decades worked on aspects of the "etiologic" disciplines of bacteriology, immunology, parasitology and virology, which Leon Saunders suggests should be carefully separated from the Department of Pathology. I expect the new Department of Pathobiology will provide a supportive environment for continuing strength in pathology as well as in parasitology, microbiology and immunology. Opportunities for greater collaboration across disciplines could bring renewed excitement to our research and teaching.

I believe I understand Leon Saunders's deep concern about changes that affect the discipline to which he has made so many outstanding contributions over the years. I wish to reassure him that the Department of Pathobiology poses no threat to the discipline of pathology, which will undoubtedly continue to flourish at OVC because of the outstanding personnel in the discipline.

Reduced resources will probably have an impact on the scope of activities, but not on the quality of the work. By pooling resources, reducing the amount of the budget devoted to administration, exchanging ideas and increasing collaboration, pathologists and microbiologists will be better equipped to not only advance their disciplines, but also to solve some of the problems that face our society.

Prof. Carlton Gyles, chair
Veterinary Microbiology and
Immunology


Corrections

The Jan. 31 *At Guelph* commentary "Veterinary Pathology Flourishes as Independent Discipline" by Leon Saunders contained the following typographical errors. It should have read as follows: "In these latter countries, one finds departments of 'pathology and bacteriology,'" invariably headed by a microbiologist whose horizons were bounded by a Petri plate. Subservient to this microbiologist was a pathologist, who remained a perennial assistant; this person could never aspire to attain professorial rank, no matter how long his career." It should also have read: "In this case, the repre-

sentation looms, in my view, as a giant step backwards, and this letter is an anguished protest against it." In addition, the article should have said that OVC's Pathology Department "recruited a faculty of teachers/researchers who, by the mid-1990s, were respected and admired throughout the English-speaking world . . ." and that Saunders is one of the two founders of the World Federation of Veterinary Pathologists.

The Jan. 31 listing of research awards from OVC's Pet Trust contained an incorrect figure. Prof. Julie Yager received \$1,500 from the fund, not \$41,500. □

Farcus by David Wainwright Gordon Goultart



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Non-senators can help shape policy change

Faculty don't have to be members of Senate to get involved in guiding changes occurring at U of G in the wake of the recent budget announcement and the Strategic Planning Commission (SPC).

Six Senate committees — the Board of Undergraduate Studies, the Board of Graduate Studies, the Research Board, the Committee on University Planning, the International Committee and the Committee on Open Learning — will have vacancies that may be filled by non-senators. Terms are for one year and begin Sept. 1. Applications are welcome until March 1.

Prof. Susan Evers, Family Studies, chair of the Senate Committee on Bylaws and Membership, which is responsible for the makeup of each committee, believes this is a great opportunity for faculty to get involved in areas of interest to them without necessarily making the time commitment of also being on Senate.

"There are many people who have expertise in a variety of areas covered by Senate committees who could make a valuable contribution to the development of the University," says Evers. "During this time of tremendous change in which recommendations coming from SPC are in the process of being implemented, committees will play an important decision-making role and guide the direction of the University."

She encourages faculty interested in one of the six Senate committees to apply through Senate secretary Brenda Whiteside. The mandates of the committees follow.

Board of Undergraduate Studies

BUGS is responsible for making recommendations to Senate on all matters of undergraduate degree educational policy and procedures. It concerns itself with the academic standards of planning for undergraduate degree programs and the requirements of those programs. Acting on Senate's authority, it approves the candidates for undergraduate degrees and receives information and reports to Senate on the composition of program committees. Two of the faculty positions are open to non-senators. For more information, contact committee chair Prof. Norman Gibbins, Microbiology.

Board of Graduate Studies

BGS reports to Senate on proposals for the establishment of a new program for a graduate degree or graduate diploma and recommends admission standards for appointments to the Faculty of Graduate Studies. It makes recommendations on matters of graduate educational policy and, acting on Senate's authority, approves the candidates for graduate degrees. Three of the graduate faculty positions may be filled by non-senators. For more information, contact committee chair Prof. Alun Joseph, Geography.

Research Board

The Research Board is responsible for developing policies and procedures related to U of G's research program. It makes rec-

ommendations on matters relating to procedures for approval of applications for research grants and contracts for external agencies, policies and procedures on patents and copyrights, and policy and procedures for the co-ordination of research. Three of the faculty positions are open to non-senators. For more information, contact committee chair Prof. Wayne Martin, Population Medicine.

Committee on University Planning

The Senate Committee on University Planning is responsible for making recommendations to Senate regarding priorities in the distribution of resources. It undertakes and maintains a long-term planning function for the University, reviews major proposals for organizational change at Guelph, recommends to Senate appropriate academic and administrative structures, and reviews enrolment projections for academic programs. Two of the faculty positions on this committee are open to non-senators. For more information, contact committee chair Prof. John Barta, Pathology.

Senate International Committee

This committee is responsible for developing plans to incorporate an appropriate international perspective into all parts of the University. It develops policies and procedures related to international opportunities in Guelph's academic programs and our involvement in countries outside Canada. It formulates policies guiding U of G's provision of education and services to international students studying on campus and Guelph students studying abroad. Three of the faculty positions on this committee are open to non-senators. For more information, contact committee chair Prof. Truman Phillips, Agricultural Economics and Business.

Committee on Open Learning

This committee is responsible for formulating and monitoring policy guiding the University's provision of education and services to open learners and for providing advice to the director of open learning on all matters referred to the council by the director. Three faculty on this committee may be non-senators. For more information, contact committee chair Prof. Jim Mottin, Psychology.

Special interest

Faculty applying for membership on these committees should have a special interest in matters relating to the responsibilities of a given committee.

To select the most appropriate members, the Senate Bylaws and Regulations Committee requests that interested parties submit a brief description of their talents/expertise and their reasons for wanting to participate in a particular committee. The Senate Bylaws and Regulations Committee will make every attempt to accommodate preferences, but it cannot guarantee placement on a committee. □



Waste recycling has bins around. Housekeeping supervisor Ed Martin, left, waste-management co-ordinator Alex Hall, centre, and Housekeeping head Ken Steer hope bins labelled with large stickers help ease any confusion about wet/dry recycling on campus. Photo - Kerith Waddington, University Communications

Waste sorting important for quality

Continued from page 1

exemplary in its level of environmental awareness, and this project gives us the means by which to act on that."

Education is key to the successful implementation of the project on campus, says Hall, who continues to work with the City of Guelph, Housekeeping Department head Ken Steer and supervisor Ed Martin to that end. After introducing staff to new ways of picking up waste and familiarizing building users with appropriate sorting techniques through information sessions, posters, pamphlets, tent cards and e-mail, the team is pleased with the response to date.

"The highest level of participation is currently coming from private spaces such as offices because most people in the area are practising the wet/dry system at home," says Steer. "Public spaces like eating areas are a bit more difficult because they are often used by first-year students, who tend to be from outside the area and for whom the system may be new and somewhat confusing. But I've no doubt perseverance will pay off."

The wet/dry system involves the separation of all waste into two streams — wet and dry. Wet consists of anything compostable, including all food products, paper towels and tissues. Dry consists of both recyclables and non-recyclables such as packaging, paper products, metals, glass and plastics.

What changes can you expect as a result of the program?

If you work in an office area, your regular garbage basket will now be used for dry waste. Managing wet waste may require a bit of legwork — containers for things such as food scraps and tissues will be placed in central locations on floors, within each department and in every food court.

What were previously large garbage bins in public areas will now be marked for either dry or wet waste. Look for signs above each to guide your sorting.

The Grounds Department will be responsible for collecting the

waste and transporting it daily to the Wet/Dry Recycling Centre at the corner of Stone and Watson roads. There, it will be sorted and processed before being sold to what is a growing market for recycled materials.

Trevor Barton, marketing officer for the City's wet/dry program and a 1994 social science graduate of U of G, says proper sorting of material at the source is important if quality products are to be produced at the facility.

"Waste — not garbage — is now a commodity that sells, and we are developing relationships with end buyers of our products all the time," says Barton. "The City is pleased with the excellent partnerships it has developed with the University over the years in various recycling endeavors and hopes this will be an extension of that."

Some of those endeavors will continue. Newsprint, glass and tin recycling is being phased out because the materials will now be considered dry waste, but the University's established recycling programs for fine paper and

corrugated cardboard will continue as before. There will be no changes in the handling of hazardous, sharp and radioactive wastes and animal tissue.

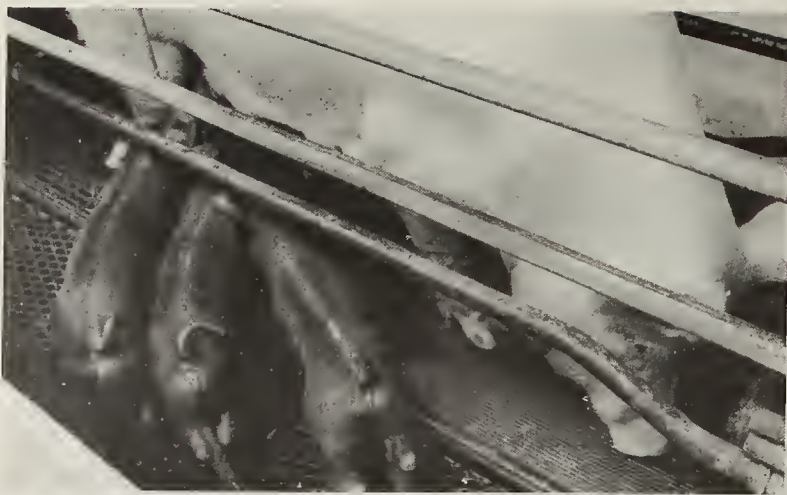
Due to the nature of the University's waste stream, the City has requested that U of G include a separate bypass stream in addition to wet and dry. This waste will "bypass" the Wet/Dry Recycling Centre and go directly to landfill. Typical bypass materials include broken laboratory Pyrex, rubber gloves, autoclaved lab waste and light bulbs.

U of G is trying to implement the wet/dry program at no additional cost to the University, says Hall. For example, most of the wet, dry and bypass containers are being reused from other areas, and the City is providing the information signs, pamphlets and stickers.

He notes that the importance of U of G's participation in this pilot project stretches beyond local environmental benefits. "The world will be watching Guelph," he says. □



Protesting the cuts. U of G students joined a national day of protest Feb. 7 against provincial funding cuts to universities. Here, students march across campus on their way downtown to St. George's Square and the office of MPP Brenda Elliott. Photo - Kerith Waddington, University Communications



Red Duroc piglets with a white Yorkshire sow — only possible through new breeding technologies.
Photo - Martin Schwalbe

Piglets born from oocyte transfer

by Jo-ella van Duren
Office of Research

North America's first piglets produced from oocyte (unfertilized egg) transfer have been born at Guelph under the Struthers Research Project.

By combining traditional embryo transfer technology with innovative procedures for oocyte transfer and in vitro fertilized embryos, Struthers Research Inc. and Guelph researchers are developing new, practical ways to rapidly improve swine herds.

The research team in the Depart-

ment of Population Medicine — Profs. John Pollard, Claire Plante and Cathy Gartley, research veterinarian Adrienne Randall, postdoctoral student Murray Pettitt and research assistant Stephanie Reedy — is working with several new technologies. Besides oocyte transfer (removing unfertilized eggs from the ovaries of donor sows or gilts and implanting them into the oviducts of inseminated recipients), the team is pursuing:

- dependable methods for the in vitro fertilization and cryopre-

servation of swine embryos produced from slaughtered and carcass evaluated gilts; and

- simple, reliable techniques for storing and transferring embryos recovered from valuable donors.

Developing a new culture medium for embryos and simplifying surgical transfer methods has resulted in pregnancy rates greater than 85 per cent for embryos stored more than a day in the laboratory. Storage ability has taken on new relevance, with Struthers Research Inc. managing the export and transfer of 100 liters worth of embryos to the Czech Republic this spring.

The goal of the Guelph and Struthers researchers is to integrate new technologies into an accessible, practical clinical program for Ontario pork producers and international export.

This research is supported by Struthers Research Inc., the National Research Council and the Ontario Ministry of Agriculture, Food and Rural Affairs. □

Update draws 400 teachers

Update '96, a professional-development program for secondary school teachers, guidance counsellors and school administrators, will run on campus Feb. 16 and April 26.

About 400 secondary school staff are expected to participate in the 14th annual program, which will offer more than 50 sessions led by Guelph faculty and staff. Participants can go on tours, join in interactive discussions, attend formal lectures or participate in hands-on experiments. Sessions will focus on such diverse topics as the Young Offenders Act, wetlands preservation, the World Wide Web and international development.

A planning committee with representatives from U of G's academic and student-service areas is pivotal in planning Update each year, says Mary Haggarty of the Liaison Office. Since its inception in 1982, the program has grown dramatically in both number of participants and sessions, she says. Most participants are from central and southwestern Ontario, but some come from as far away as Sudbury and Ottawa. □

PEOPLE

The American journal *Choice*, which reviews more than 6,000 scholarly books a year, has named the Rutledge *Encyclopedia of Post-Colonial Literatures in English* to its list of "outstanding academic books of 1995." The two-volume work, edited by University professor emeritus Eugene Benson, English, and Leonard Conolly, former associate vice-president (academic), has been characterized in other journals such as the *Times Literary Supplement* and the *Times Higher Education Supplement* as the most authoritative and comprehensive work on the literatures in English of Australia, Bangladesh, Canada, the Caribbean, East Africa, Gibraltar, Hong Kong, India, Malaysia, Malta, New Zealand, Pakistan, the Philippines, Singapore, South Africa, the South Pacific, Sri Lanka, St. Helena and West Africa.

Prof. Keith Betteridge, Smiley-Reeds-McDonald research professor in the Department of Biomedical Sciences, was elected president of the International Embryo Transfer Society (IETS) at its annual conference in Salt Lake City. A founding member of IETS, which has 1,000 members in more than 40 countries, Betteridge has twice served as vice-president. Previous presidents include Profs. Allan King and Stan Leibo, Biomedical Sciences.

Prof. Keith Solomon, director of the Centre for Toxicology, is speaking at Wichita State University Feb. 20 as part of its spring 1996 visiting professorship lecture series. He will discuss "How Perceptions Affect the Way We Teach Environmental Risks."

A paper by graduate student Gillian Joseph and Prof. Joseph Tindale, Family Studies, on "Identifying the Social Factors That Prevent Older Workers from Retraining" was presented at the scientific and education meeting of the Canadian Association of Gerontology in Vancouver.

Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology, spoke on "The Church and Social Action" at a conference sponsored by the Kairos Centre in Lowville, Ont.

Prof. David Douglas, University School of Rural Planning and Development, spoke on "Community-Based Planning" to the

Guelph chapter of the Canadian Federation of University Women in January. He also led a day-long workshop on rural community development for the Advanced Agricultural Leadership Program in Peterborough.

Graduate student Terry Humphreys, Family Studies, presented a paper co-authored with Prof. Ed Herold on "Development of an Integrated Theoretical Perspective on Date Rape" at the 22nd annual Canadian Sex Research Forum in Banff. Herold presented a paper written with grad student Dawn Mewhinney and Eleanor Maticke-Tyndale of the University of Windsor on "Vacation Sexuality: An Exploratory Study of the STD/HIV Risk Activities of Canadian University Students on Spring Break." Grad student George Bielay gave a paper written with Herold on "Popular Magazines as a Source of Sexuality Information for University Women."

Prof. Rosalind Gibson, Family Studies, spoke on "Zinc Deficiency in Developing Countries" to the International Society for Trace Elements Research in Humans in Sicily and on "Monitoring and Evaluating the Impact of Food-Based Strategies" at a workshop on "Food-Based Strategies to Combat Micronutrient Malnutrition" at the Cornell-Thrasher Research Foundation in Utah. □

1997 Paris semester cancelled

The winter '97 Paris semester has been cancelled for budgetary reasons, Prof. Constance Rooke, associate vice-president (academic), said Feb. 9.

This action follows a decision made by the Senate International Committee at a meeting where criteria for the continuation and introduction of semester-abroad programs were developed and applied to all semesters abroad that are being envisioned for next year. □

GRAD NEWS

The final oral examination of PhD candidate Lynnette Dirk, Botany, is Feb. 16 at 9:30 a.m. in Room 314 of the Axelrod Building. The thesis is "Mobilization and Conversion of Carbohydrate Reserves in *Fenugreek* (*Trigonella foenum-graecum* L.) Seedlings." Her adviser is Prof. Derek Bewley.

The final oral examination of Jeffrey Goodyear, a PhD candidate in the Department of Zoology, is Feb. 16 at 2 p.m. The public lecture is in Room 259 of the Axelrod Building, followed by the defence in Room 168. The thesis is "Significance of Feeding Habits of North Atlantic Right Whales Based on Studies of Diet Behavior, Diving, Food-Ingestion Rates and Prey." The adviser is Prof. David Gaskin.

The final examination of

Heather Barker, an M.Sc. candidate in the Department of Human Biology and Nutritional Sciences, is Feb. 20 at 9 a.m. in Room 336 of the Animal Science and Nutrition Building. The thesis is "The Rapid Effects of Dietary Zinc on the Structure and Function of the Lower Gastrointestinal Tract of the Rat." The adviser is Prof. Bill Bettger.

The final oral examination of Peter Berti, a PhD candidate in the division of applied human nutrition in the Department of Family Studies, is Feb. 28 at 10 a.m. in Room 233 of the FACS Building. The thesis is "Nutritional Assessment and the Nature of Dietary Deficiencies in a Highland Ecuadorian Community." The adviser is Prof. William Leonard. □

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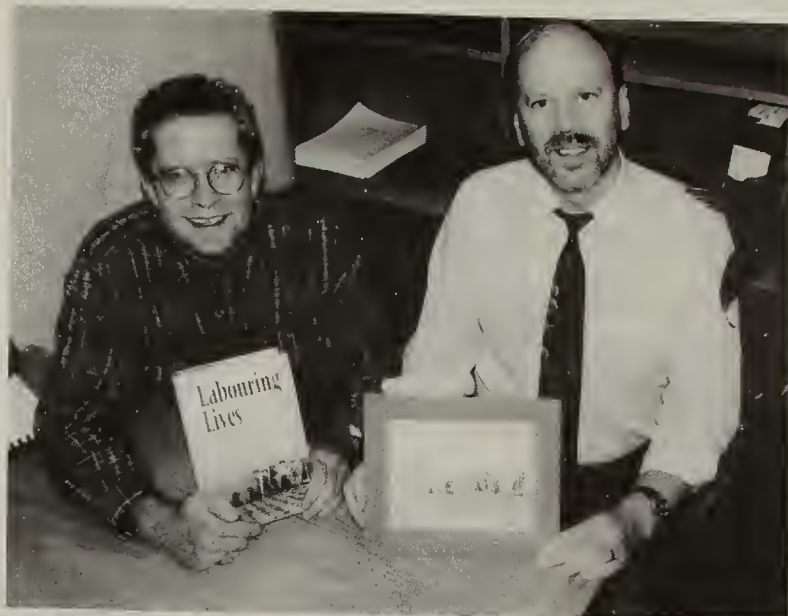
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BOOKS



Prof. Terry Crowley, left, holds a copy of a new book he contributed to, whose cover depicts Ontario farmers at the turn of the century. Two of the people in the photo are ancestors of Larry Shuh of Financial Services. It was in investigating the journal of Shuh's grandfather Clayton, a 1901 graduate of OAC, that Crowley learned of the photo, which hangs in Shuh's office.

Photo - Kerith Weddington, University Communications

Agriculture a family occupation in 19th-century Ontario, study finds

by Kerith Weddington
University Communications

What was life like for rural laborers in 19th-century Ontario?

That's a question Prof. Terry Crowley, History, helps answer in a chapter he contributed to a recently released monograph called *Labouring Lives. Work and Workers in 19th-Century Ontario*. The first study of its kind, the book examines labor and the law, the home as workplace, religion, leisure and working-class identity and other issues affecting the lives of early Ontario settlers. In his chapter, Crowley looks at the evolution of the family farm and the contributions of women and children to its success.

He found several surprises. "Agriculture was not a male occupation but a family one in rural 19th-century Ontario," he says. "Although there were established sex roles, there was much evidence of men and women helping each other with chores depending on the exigencies of the moment. And it wasn't uncommon for kids to start working on the farm by age five."

Conducting his research using archival materials from five provincial libraries, Crowley found that early Ontario settlers were a mix of American, Irish, Scottish and English descent. There were also pockets of francophones, aboriginal peoples and African Americans fleeing slavery.

Bills and business accounts revealed that wheat was the province's primary crop until the West opened up in the late 1850s; mixed farming and livestock production then became more common. It was also evident that although farming early in the century seemed to offer opportunities, by century's end, the family farm was under threat as the growth of industry and competing attractions drew people to the cit-

ies. Crowley says he was surprised to find that more women than men were adventurous in seeking out urban employment.

He believes it's important that such history be catalogued because the past can't help but reflect contemporary concerns.

"It is the role of historians to show people how much or little things have changed," he says. "For example, the vast majority of people in 19th-century Ontario were farmers, but now only two per cent are. This shift in population resulted in tremendous life-

style changes."

Conditions were often rough for early settlers, says Crowley, but despite the hardships, enduring questions were also faced. One journal from the 1870s reveals a young man's desire for self-determination and his final decision to be a pharmacist rather than move to Florida as his brother had.

Crowley says that in writing the chapter, he tried to let the people "speak for themselves."

The monograph, geared to a general readership, is available in the University Bookstore. □

Statistics a valuable tool in assessing health risks

by Kerith Weddington
University Communications

What are the health risks involved in drinking alcohol? What's the risk of women developing breast cancer as they age? What's the risk of using chemicals or insects to control loquacity?

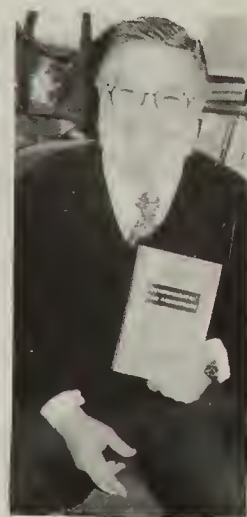
These are some of the questions answered in a new book by Prof. J.J. Hubert, Mathematics and Statistics.

Environmental Risk Assessment is a text that uses statistical data to evaluate a variety of health hazards for plants, animals and humans that are associated with food, water and air. Used in Guelph's environmental sciences program, the text shows how statistics can be a valuable tool in this new area of study, says Hubert.

"Risk assessment developed in response to recent identification by the scientific community of hazards associated with a variety of environmental conditions," he says. "In the text, the most well-known statistical methods used by scientists, government agencies and other institutions are used to assess risks linked to such things as environmental tobacco smoke, exposure to formaldehyde and the greenhouse effect. It is hoped that graduates of the program will become part of the solution to some of Canada's most pressing environmental problems."

The most common method of assessing environmental risk involves establishing a trend or relationship between dose and response. Smoking, for example, is a risk factor and throat cancer is a possible response; the higher incidence of throat cancer among smokers illustrates a trend.

The addition of co-factors and



Prof. J.J. Hubert
Photo - Kerith Weddington

their effect on the trend can also be used to assess risk. The incidence of throat cancer among smokers, for example, is higher if they also drink alcohol.

Incidence rate, the ratio of incidence rates and an odds ratio are the measures used to establish a trend.

The contents of the text, which is available in the University Bookstore, are understandable to anyone with at least one year of statistical education, says Hubert. Currently being used for courses at the universities of Illinois and Northern Iowa as well as Guelph, *Environmental Risk Assessment* can fill in some of the educational gaps surrounding health hazards in our environment, he says.

"The risk for most things is being brought down through awareness and advancements in many disciplines. This is the best time to live." □

Publications

Prof. Nonita Yap, University School of Rural Planning and Development, is editor of *Waste Management for Sustainable Development in India - Policy, Planning and Administrative Dimensions with Case Studies from Kanpur*. The book is a collection of 16 papers based on the preliminary research findings of the Partnership Project funded by CIDA and the Shastri Indo-Canadian Institute.

Prof. Mohamed Shoukri and technician and teaching support Victoria Edge, Population Medicine, are authors of *Statistical Methods for Health Sciences*, published by CRC Press.

Profs. Jean Turner and Prof. Marshall Fine, Family Studies, are authors of "Postmodern Evaluation in Family Therapy Supervision," which appeared in the *Journal of Systemic Therapies* 14 (2). They also wrote "Collaborative Supervision: Minding the Power" and Gender and Supervision: Revealing the Unseen and the Unheard" for the *Handbook of Family Therapy Supervision*. □



Economist honored. The proceedings of an economics conference held on campus in 1993 in honor of the late John Venderkamp, former dean of the College of Social Science, have been preserved in print with the publication of *Aspects of Labor Market Behavior*, a collection of papers and comments from the conference. Published in Venderkamp's memory, the book was edited by Profs. Louis Christofides, Ken Grant and Robert Swidinsky, Economics, who recently presented a copy to Venderkamp's wife, Rosemary, of Canadian Public Policy. Above, in front, are Grant and Venderkamp. At back, from left, are Christofides; Dave McEwen, chair of the Alme Meter Fund, which supported the conference; Swidinsky; and CSS dean David Knight.
Photo - Barbara Chance, University Communications

Community

NOTICES

HAFAs gourmets

Fourth-year HAFAs students are holding their annual gourmet dinner series Wednesdays from Feb. 28 to March 27. Japanese, Spanish, Californian, French and Cajun cuisine are planned, with prices ranging from \$25 to \$35. Dinners begin at 7 p.m. For reservations, call Ext. 3781.

Logo contest

The Department of Political Studies is holding a contest to design a new logo for its Web page and T-shirts. Prizes include \$50 and a collector's-edition T-shirt. Submit a logo and disk to Prof. Bill Christian by March 1.

Hit the slopes

The U of G Alumni Association is sponsoring its annual Alumni Ski Day at Horseshoe Valley Resort March 11. Fun races, an après ski

party, activities for non-skiers and specially priced alumni hotel rooms are available. For hotel reservations, call the resort at 1-800-461-5627. For more information, call Sue Lawrenson in Alumni House at Ext. 6963.

Hospital fund raiser

A cow pie contest to raise funds for the Guelph-Wellington CT Scan will be held March 17 next to the barn behind the Animal Science and Nutrition Building. Tickets are \$2 and are available in advance at the coffee shop at Guelph General Hospital. First prize is an all-inclusive 14-day trip to Europe.

Strings concert

The Institut Musical Suzuki Paris and the Suzuki String School of Guelph perform "Music from Paris" March 3 at 3:30 p.m. at Holy Rosary Church in Guelph. Admission is free, but donations are welcome for the Guelph Youth Music Centre building fund. For more information, call Paule Barsalou at 836-3798.

Florida alumni reunion

The annual Florida alumni reunion is slated for March 6 at the North Port Yacht Club, with coffee and visiting at 10:30 a.m., lunch at 12:30 p.m. and guest speaker Douglas Campbell, a 1960 OAC graduate who is consul and trade commissioner at the Canadian Consulate in Miami. He will speak on "The Canadian Relationship." Cost is \$14 US per person.

March Break Fun Week

Guelph Museums presents March Break Fun Week for children aged

five to 10 March 11 to 15 and March 18 to 22, with daily activities at both the Guelph Civic Museum and McCrae House. Cost is \$8 per session. To register, call 836-1221.

In support of Big Sisters

Big Sisters will hold a fund-raising dinner and auction March 7 at LaFontana Restaurant in Guelph. Cost is \$20 per person. Tickets are available at the Big Sisters office, Duncan McPhee, the Gift Collection and LaFontana Restaurant. Call 824-0800 for information or to reserve your ticket.

Gardening series added

The Arboretum will offer a second "Practical Approach to Home Gardening Series" because the first is full. The second five-part series will run Tuesday evenings at 7:30 p.m. beginning Feb. 20. Cost is \$50. Call Ext. 4110 to register.

TVO seeks volunteers

TVOntario, which is running its winter on-air membership campaign until March 2, needs 40 community volunteers each night during the campaign to take telephone pledges on air. Volunteers get free parking, a hot meal and snacks and a tour of the studios. For more information, call Sylvie Madely at 416-484-2600, Ext. 2242.

It's an art

The Wellington County Museum and Archives is offering a series of art workshops from April 20 to Sept. 29 in Elora. Watercolor, oil and mixed-media painting, drawing for fun, woodcarving, sketching and embroidery are being offered. For information and a brochure, call Bonnie Callen at 846-0916 or Marlene Jofriet at 821-9792. □

Going for baroque

Two U of G faculty are part of an ensemble that will perform baroque and 20th-century works for early instruments Feb. 17 at 8 p.m. at the Macdonald Stewart Art Centre.

Prof. Mary Cyr, chair of the Department of Music, will perform on viola da gamba, and College of Social Science dean David Knight will play percussion. Other members of the group are Sandra Mangsen of the University of Western Ontario, performing on harpsichord; Sophie Rivard of l'Orchestre métropolitain de Montréal on baroque violin; and Toronto musician Avery MacLean on recorder.

Their program will include the world premiere of John Gordon Armstrong's *In Three* for violin, viola da gamba and harpsichord.

Admission to the concert is \$10 general, \$6 for students and seniors. For ticket information, call the Department of Music at Ext. 3127. □

JOBS

As of At Guelph deadline Feb. 9, the following opportunities were available:

Second-Class Stationary Engineers, Central Utilities Plant, two positions. Salary: probation rate \$20.36, job rate \$21.36. Removal date: Feb. 14.

Third-Class Stationary Engineers, Central Utilities Plant. Salary: probation rate \$17.59, job rate: \$18.59. Removal date: Feb. 14.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

CLASSIFIEDS

FOR RENT

Large furnished room in adult home, walk-in closet, bathroom, shared kitchen and laundry, 15-minute walk to campus, on bus route, available May to September, Ext. 6582 or leave message at 822-2336.

WANTED

39-inch mini trampoline, Mary, Ext. 8706.

Student painters for summer employment, Peterborough area, experience not necessary, great income possibilities, Dave, 821-3770.

FOR SALE

Border collie pups from working stock; 1987 Suzuki Samari jeep, Sarah, Ext. 3010 or 763-8217.

1988 Mercury Tracer Wagon LS, five-speed, silver, well-maintained, no rust, new muffler and gas tank, 171,000 kilometres, 766-1878.

Baby crib and mattress, change table and dresser, all white, excellent condition, Lisa, Ext. 6116.

Four-bedroom home in old University area on quiet cul-de-sac, four baths, two fireplaces, fenced yard, high-efficiency gas, partially finished basement with walkout, 767-1519.

FOR SALE

Membership at Good Life Nautical Fitness Club, available for eight months, Sharon, 823-0154 evenings.

Bungalow in old University area, 1,400 square feet, paved drive, carport, new roof, fireplace, gas heat, central air, fenced yard, possibility of income through rental of two-bedroom basement apartment, Kim, 836-0737.

Three-bedroom home on quiet cul-de-sac, walk to schools, campus, downtown, hardwood floors, high-efficiency gas, 767-9872.

AVAILABLE

Full-time child care, specializing in babies and preschoolers, Kortright and Gordon area, 18 years' experience, fenced yard, non-smoker, references, Kathryn, 763-8966 after 6 p.m.

Pet sitting by veterinarian, pet nursing care if required, security-cleared individual, Janis, 766-0634.

Care for your dog in my home while you travel, references, Cobi, Ext. 6010 or 836-8086.

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CALENDAR

THURSDAY, Feb. 15

Music Lecture - Master drummer Fred Dunyo of Ghana will discuss and demonstrate traditional Ghanaian styles of music and dance at 11 a.m. in MacKinnon 203.

Pathology Seminar - Graduate student Karmie Rose examines "Comparative Evaluation, Cooling and Cryopreservation of Silver Pheasants (*Lophura nycthemera*) and Edward's Pheasant (*Lophura edwardsi*) Semen" at 11:10 a.m. in Pathology 2152.

Concert - Pianist Flavio Varani performs at 12:10 p.m. in MacKinnon 107. Admission is free.

Town Hall Meeting - Senior administrators will discuss the "Budget Shortfall and the Proposed Solutions" at two meetings in Peter Clark Hall — at noon for faculty and staff and at 5 p.m. for students. A meeting for night-shift workers begins at 10:30 p.m. in MacNaughton 105.

French Studies Lecture - Nicole Pellegrin of the Institut d'histoire moderne at the Centre national de la recherche scientifique in Paris will discuss "Le couvent et la féminisation des travaux d'aiguille: France/Canada (17e-19e siècle)" at 4 p.m. in MacKinnon 234. The lecture will be given in French. A discussion period will follow in English and French.

Workshop - The Counselling Unit hosts a session on "Balancing Your Act" at 5 p.m. in UC 334.

Black History Month - The African Students Association is sponsoring a film at 5:30 p.m. in UC 004.

Fine Art Film Series - Prof. Gerta Moray introduces "Images of Self and Nation in Canadian Experimental Film and Video" at 6:30 p.m. in the Macdonald Stewart Art Centre.

FRIDAY, Feb. 16

Biomedical Sciences Seminar - "Risk Factors in the Development of Liver Cancer" is the topic of Prof. Gordon Kirby at 12:10 p.m. in OVC 1642.

Evolution and Systematics Seminar - "Evolution of the Bacterial Genome" is the topic of Howard Ochmann of the University of Rochester at 3:10 p.m. in Axelrod 259.



Flavio Varani performs Feb. 15 at 12:10 p.m. in MacKinnon 107.

SATURDAY, Feb. 17

Theatre - Theatre in the Trees presents *The Hand That Cradles the Rock*, a comedy by Warren Graves, at the Arboretum Centre. Buffet is at 6:30 p.m.; showtime is 8 p.m. Tickets are \$39 plus GST at the UC box office, Ext. 4368.

Concert - Baroque music and a premiere of a new trio by John Armstrong begin at 8 p.m. at the Macdonald Stewart Art Centre. Admission is \$10 general, \$6 for students and seniors. For ticket information, call the Department of Music at Ext. 3127.

TUESDAY, Feb. 20

Chemistry and Biochemistry Seminar - Prof. Jacek Lipkowski considers "Structure of the Metal/Solution Interface" at 9:10 a.m. in MacNaughton 222.

WEDNESDAY, Feb. 21

Third Age Learning - The lecture series for retired people continues with David Campbell discussing "China's Environmental Policy: Impediments to Implementation, Present and Past" at 10 a.m. and Prof. Alan Filewod, Drama, examining "Marsh Hay by Merrill Denison" at 1:30 p.m. Lectures are at the Arboretum Centre.

Biochemistry Seminar - Ann Chambers of the University of Western Ontario discusses "Osteopontin: Regulation and Function in Malignancy" at 12:10 p.m. in MacNaughton 222.

FRIDAY, Feb. 23

Land Resource Science Seminar - Environmental scientist Anthony Young of the United Kingdom discusses "Agrofore-

stry and Soil Management: False Hopes or Real Achievements" at 3:10 p.m. in Richards 124.

MONDAY, Feb. 26

Black History Month - The Black Theatre Workshop of Montreal presents the children's play *A Cat and A Dog* at 2 p.m. in War Memorial Hall. Admission is \$4.

TUESDAY, Feb. 27

Food Science Seminar - Arleen Yee of the Ontario Agriculture and Food Lab Services talks about "Looking for Antibiotic Residues in Ontario Food" at noon in Axelrod 117.

Canadian Studies Lecture - "The Portrayal of Gender in Advertising Images" is the focus of Prof. Linda Hunter, Sociology and Anthropology, at 1:30 p.m. in MacKinnon 226. Cost is \$15. To register, call Ext. 3064.

Chemistry and Biochemistry Seminar - Jim Boleja of Tufts University discusses "Solution Structure of the Membrane-Binding Domain of Coagulation Factor 1X" at 2:10 p.m. in MacNaughton 222.

Physics Seminar - Clifford Will of the McDonnell Centre for the Space Sciences at Washington University in Missouri asks: "Was Einstein Right?" at 4 p.m. in MacNaughton 113.

WEDNESDAY, Feb. 28

Third Age Learning - The lecture series for retired people continues with Prof. Theresa Lee, Political Studies, discussing "China and Democracy" at 10 a.m. and Prof. Ric Knowles, Drama, examining "King Lear and As You Like It by William Shakespeare" at 1:30 p.m. Lectures are at the Arboretum Centre.

WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □



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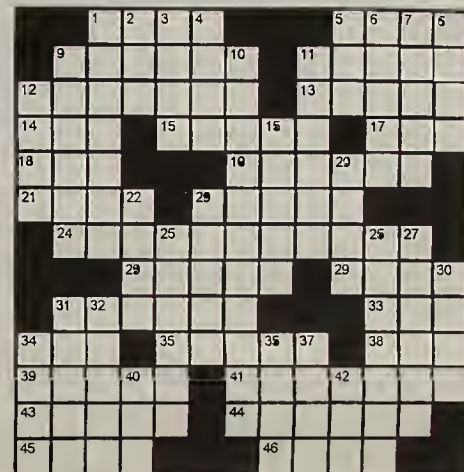
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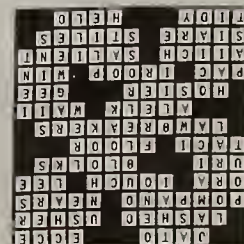


ACROSS

1. Unit assisting airplane takeoffs
5. Behold: Latin
9. Turned into money
11. Doorkeeper
12. Food fish
13. Approaches
14. Mouths
15. Make contact with
17. Actor Majors
18. Tell's canton
19. Auction platforms
21. Savoir-faire
23. High-rise story
24. Criminals
28. Smart
29. Power unit
31. Stockings seller
33. Precedes 39 Across
34. Moccasin-like shoe
35. Cavalry unit
38. Come out on top
39. Follows 33 Across
41. Conspicuous
43. Look surprised
44. Wall steps
45. Straighten up
46. Gnipped

DOWN

1. Caribbean island
2. Egyptian cobra
3. "___ Girl"
4. Wine
5. Native of suffix
6. Soft limestone
7. Goddess of agriculture
8. Scottish Gaelic
9. Round up
10. Play Judas
11. Free from a habit
12. Sulk
16. Sleeveless garment
20. Company of seamen
22. "___ the Night Before Christmas..."
23. Art gallery
25. Joyous
26. Herb producing allergenic pollen
27. Beer mugs
30. Wound plug
31. Hispaniola
32. Series of eight combining form
34. Days of old
36. Profane utterance
37. Ballet knee bend
40. Shout out
42. Not well



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COMMENTARY

Improving learning and teaching from a learner-centred approach

by Nancy Schmidt
Learning Resource Centre

In his research on university assessment and quality, Astin (1980, 1985) has stated that higher education has three basic functions: the education of students, research and public service. Academics who assess the quality of education of students often define the concept from the perspective of teaching. Thus, discussions on enhancing the quality of students' education have tended to focus on strategies and suggestions for improving teaching.

This approach is not incorrect or inappropriate, but it is incomplete. What has been missing in these discussions has been a perspective that focuses on the students themselves, their learning and performance, and their perceptions of their educational experience.

To support the concept of learner-centredness, as identified in the University's strategic plan, it is necessary to have a better understanding of the connection among teaching, learning and the education of students.

Extensive and comprehensive

The body of knowledge concerned with the improvement of teaching and learning in higher education is both extensive and comprehensive. It includes such topics as cognitive styles, knowledge structures, student motivation, assessment techniques, classroom practices, instructional design, teacher training methods, subject/content mastery and curriculum design.

Because of the extensive nature of the field, it is usually subdivided along lines of research related to learning and research on teaching. As a result of this delineation, teaching and learning are often examined in isolation. Experts in the fields of learning and teaching tend to discuss their topics separately and in different arenas — through different conferences — and to report their findings in different journals.

When the terms are used together, combined in a single phrase, the discussions are often limited to teaching. Learning becomes the tagged-on term, receiving little attention, definition or description. In this paradigm, teaching informs learning.

Over the last decade, several researchers have challenged the isolation between teaching and learning. Gibbs (1981), Ramsden (1992), Entwistle (1981, 1987) Eble (1988) and others have tried to show how teaching and learning in higher education are inextricably linked and need to be seen as interchanging activities.

According to Ramsden, helping faculty teach and encouraging students to learn involve identical principles. Likewise, Eble comments: "One learns by teaching; one cannot teach except by constantly learning."

Understanding how students learn provides the context for understanding ways to improve teaching. In this paradigm, it is learning that informs teaching.

Although these research findings legitimize bringing the terms out of isolation and using them together, teaching and learning are still often paired without noting their relational context.

These changes in the way we think about teaching and learning are also reflected in a shift in the metaphors used to describe these processes. The dominant metaphor underlying teaching has been that of transmission, where teachers are "senders" of information. This metaphor emphasized the process of transference — "packaging, sending, targeting, receiving — while hiding the relational and interpersonal aspects" (Tiberius, 1986). Learning was seen as an absorption process, filling students with information.

The new or competing metaphor is based on dialogue or communication and involves "interactive, co-operative and relational aspects of teaching and learning" (Tiberius). Students learn not by absorbing content but by critically analysing, discuss-

ing and using content in meaningful ways.

In this context, learning is seen as a process that involves changes in students' conception — how they see, experience, understand and conceptualize the world around them. It is a kind of learning that extends beyond just a quantitative change in the amount of knowledge students possess.

Students' views of knowledge and learning will undergo major changes while they are at university. During this time, they will develop an increased readiness and willingness to engage in different and more elaborate strategies for learning. Research on student cognition indicates that as students' acquire more information about a subject, develop appropriate schema for organizing their knowledge and gain confidence in their learning and thinking abilities, they will become more capable of learning how to learn.

Must understand students

Learning therefore needs to be seen through the perceptions of students, but this emphasis on students has often played a minor role in discussions on improving teaching and learning. To teach in a way that encourages and promotes changes in students' perceptions involves understanding who our students are and how they learn.

The design of a course or a style of instruction in an entering-year course will be ineffective or incomplete if it fails to take into account the cognitive maturity of 18- and 19-year-olds, doesn't recognize the transitional nature to learning in university or disregards gender differences in learning. Teachers need to become "scholars of their own students' learning" (Ramsden, 1988).

This new paradigm of learning as informing teaching calls for new ways to examine how we go about improving the educational experience of students. A learner-centred approach recognizes a shift in at-

tention away from what is to be taught to include how and with whom it will be learned.

To support such a learning-centred approach, we need to find answers for such questions as:

- How do we help students develop or select the more self-reliant, active learning strategies required for successful participation in a learner-centred institution?
- What kind of support will members of the University community need to improve teaching and learning in support of a learner-centred mission?
- How will the University recognize such a role if this is deemed an essential part of its mission?
- What is effective learning and how do we articulate and defend this conception to faculty and students?
- What do we need to know about students and their learning and performance to create, design and support effective learning experiences for them?

In her book *Changing College Classrooms*, Diane Halpern calls for new approaches to learning and teaching in higher education as a result of changes in students, technology, society and the workplace. To support these strategies, Halpern calls for the establishment of a "culture of evidence" — an ethic in which information is gathered and examined for the purpose of improving the learning and teaching process.

Guelph needs to establish its own "culture of evidence" to guide and direct institutional policies and practices in support of improving learning and teaching. It is imperative to include as part of our "culture of evidence" an understanding of the context of learning from the perspective of our students, how they experience the campus, curricula, faculty, teaching methods and assessment procedures. Only then will we be on our way to becoming a truly learner-centred institution. □

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AT GUELPH

40th
Year

Volume 40 No. 7

University of Guelph, Guelph, Ontario

February 21, 1996

AT A GLANCE

Annual report on Web.
Focusing Our Strengths, U of G's 1995 annual report, is now published on the World Wide Web and is accessible from the University's home page, under "About the University of Guelph."

RRSP information.
Human Resources is sponsoring two hour-long information sessions on RRSP contributions Feb. 22 at 11:30 a.m. and 12:30 p.m. in Room 442 of the University Centre. There will be a brief lecture, followed by a question period. Registration is not required.

Springing ahead. The College of Arts will hold an information seminar on its spring-semester courses Feb. 28 from noon to 3 p.m. in Room 107 of the MacKinnon Building. Offerings include "Visual Literacy," "Children's Literature," "Music and Popular Culture," "Perspective French Literature," "Introductory Printmaking" and "Canadian Social History Since Confederation."

It's a classic! The Classics Club is sponsoring a symposium on "Prometheus Bound and Determined" March 2 from 8:45 a.m. to 4:15 p.m. in Room 107 of the MacKinnon Building. Cost is \$6, including lunch. For more information or to register, contact the Classics Club in the Department of Languages and Literatures or call 821-0007.

Included with this issue of *At Guelph* is an insert from Environmental Health and Safety.

Thought for the week

A book is like a garden carried in the pocket.

Chinese proverb

Head/heart budget solutions will affect everyone

It was a week like no other in the annals of U of G.

Record numbers of faculty, staff and students gathered together at town hall meetings Feb. 15 to hear how administrators plan to shape a 1996/97 operating budget containing a \$19.6-million shortfall caused by the largest-ever cut made by the Ministry of Education and Training to Guelph's transfer grant.

No one is untouched by the proposed solutions, which will be considered by Senate this month and will go to Board of Governors for approval in April. Many of the

plans, if implemented, will reshape how the University conducts its business and require everyone to rethink how things are done.

Some of the proposed solutions are creative — refinancing the \$7.2-million repayment schedule for 1996/97 to cover the special deficits created by the 1991 reorganization of the non-teaching units (Cresap) and the 1994 special early retirement program (SERP); accessing the U of G Heritage Fund to finance replacement of critical computing systems; new revenue-generating in-

itiatives; and an enhanced student financial aid program.

Many are painful — \$8.9 million in reorganizations and reductions in the teaching and non-teaching units; 121 positions eliminated, 91 of them through voluntary buyouts and cancellation of vacant positions and 30 through layoffs; and a 20-per cent increase in tuition fees.

One of the proposals will require an act of faith — a one-time \$2-million clawback to the teaching and non-teaching units until an additional \$2 million in new tuition revenue is generated in

1997/98 by admitting 350 to 400 new first-year students beginning this fall and beyond.

Still, \$700,000 must be found to cover the remaining shortfall. Administrators are counting on discussions with employee groups to identify this savings.

Inside *At Guelph* this week is a special report on the town hall meetings and charts and financial information relating to the draft budget. Reader feedback is encouraged in letters to the editor. Extra copies of this report are available from University Communications, Ext. 6582. □

Change, creativity hallmark of OAC curriculum

by Margaret Boyd
University Communications

Students in OAC's class of '99 are approaching the end of the first year of a new curriculum that focuses on self-directed learning and skills development.

Because the process is so new, student consultation and feedback are an important part of the process, says Prof. Mike Jenkinson, assistant dean of OAC.

The changes aim to do more than prepare graduating students who are technically competent and who have a comprehensive understanding of the food system. The new curriculum also focuses on communication, analytical and problem-solving skills, teamwork and conflict resolution.

The changes were designed in part to better meet the needs of the agri-food industry, which seeks employees skilled in such areas as problem solving, negotiation, communications and teamwork. The changes are also in keeping with U of G's strategic-planning process, which proposes sweeping changes to the education of students, with more emphasis on self-directed learning and instilling a lifelong love of learning.

"I think most of the changes are positive," says David Hayter, a third-year B.Sc.(Agr.) student who represented student interests in the development of the new curriculum. "Employers are asking for specific skills," he says.

Three new components of the curriculum are now being integrated — an experiential learning program (ELP) that replaces a previous co-op program, a world-

of-work readiness program and an international dimension that encourages study abroad.

ELP provides a broader approach than the co-op program, says Jenkinson. Learning opportunities outside the classroom could include work terms, volunteer work, extracurricular activity, study abroad and job shadowing in an agribusiness firm. Students can fit the program to their needs, which includes obtaining credit for summer employment related to their studies. ELP participants gain leadership skills and learn to work in groups more effectively. Faculty, career counsellors, advisers, employers and senior-level student mentors will be involved in the program.

ELP empowers students to take a proactive role in their own development, says Jenkinson. "They chart their own future."

Through this program, students will build a portfolio to show the development of skills and work experiences that will entice employers to hire them in the future. The portfolio will serve as an important learning tool; for each skill, students will be provided with some idea of its relevance and suggestions to acquire and develop the skill outside the classroom. Students will review their portfolio once a semester with their academic adviser.

This portfolio system will greatly benefit students because employers are no longer interested in just marks, notes Hayter. "They want to know what you've done."

The WOW program, a unique partnership between the Counsel-

ling and Student Resource Centre and the B.Sc.(Agr.) program committee, is also part of ELP. Each semester, students take a course with career-services staff that is geared towards work-related skills such as self-management and managing people and tasks.

The new curriculum recommends that the third year of study be developed, if possible, as a semester abroad. Students can choose from a range of options, from as far away as New Zealand and Australia to as close as the Canadian Prairies, Michigan and Mexico. □



Sand by me. Grounds Department members Roy Rodgers (sitting) and Chris Duitschaever help members of the University community stay upright during the winter months by clearing snow and spreading sand. See story on page 2.

Photo - Kenith Waddington, University Communications

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Clearing snow is slippery business

by Kerith Weddington
University Communications

Keeping the University on its feet.

That's what staff from the Grounds Department do all winter by clearing snow and sanding ice on campus walkways, roads and parking lots, entranceways and stairs. Working by hand and machine from January to March, the staff are a stabilizing force in an otherwise treacherous season.

Two members of that staff — gardener Chris Duitschaever and

machine operator Roy Rodgers — swap their summertime tools for shovels and brooms each winter and start arriving on campus at 6:30 a.m. (3:30 a.m. if there is a storm). They agree their job isn't easy, but it has its appeal.

"Early morning on campus is a quiet, peaceful time, and it's possible to get a lot done before the main University traffic gets going," says Duitschaever. "Staying warm is simply a matter of keeping on the move, and most people appreciate our efforts. So it's not so bad."

Day and night crews and five full-time shovellers help keep campus moving during the winter months. After a fresh snowfall, snow is cleared and a mixture of sand and salt (five to one) is spread on icy surfaces to provide traction. If a storm is forecast, the

mixture is scattered in high-traffic areas to prevent freezing and the snow from becoming packed down.

More than 300 tonnes of the salt/sand mixture may be used during a snowy month, but unpredictable weather conditions make it difficult to stay within set budget guidelines, says Rodgers. So Grounds staff have to "go with the flow" — or the snow, as the case may be.

"Using a lot of salt is not considered environmentally sound," he says, "but we aren't any further ahead to have people falling on steps because it isn't used either. It's kind of a lose/lose situation, but by keeping the concentration of salt as low as possible, we hope to do our best to cover both concerns." □

VISITOR

Students in the Department of Agricultural Economics and Business will reap the benefits of having a well-known businessman and gardener in their midst for a week this month.

Mark Cullen, president of Weall and Cullen Nurseries Ltd., will be on campus Feb. 26 to March 1 as this year's guest in OAC's entrepreneurship-in-residence program. He is also host of CFRB's *Garden Show* and Canada AM's weekly gardening feature, and author of the best-selling gardening book *A Greener Thumb*.

The evolution of the horticultural retail business, starting a business and business plans are the topics Cullen will address while on campus. He will also speak on "Effective Communication" at a public forum Feb. 28 at 7:30 p.m. in Room 160 of the

Chemistry and Microbiology Building.

The annual entrepreneurship-in-residence program, sponsored this year by the OAC Class of '88, is an important learning opportunity for students, says Prof. Francesco Braga.

"By attracting distinguished experts from the business world who bring applied knowledge to our students, the program not only gives students a glimpse of real life, but also increases opportunities for senior students to have contacts and mentors within industry," he says. "Given the current economic climate, continuing support for programs such as this is more important than ever and much appreciated."

This year's program was co-ordinated by Prof. Jack Eggens, Horticultural Science. □

GRAD NEWS

The final oral examination of Catherine Schwartz, an M.Sc. candidate in the division of applied human nutrition in the Department of Family Studies, is Feb. 27 at 10 a.m. in rooms 231/233 of the HAFB Building. The thesis is "Anthropometric Status and Supplemental Feeding of Infants in Economically Disadvantaged Communities." The adviser is Prof. Susan Evers.

The final oral examination of PhD candidate Joseph Oryokot, Crop Science, is March 5. The seminar is at 9 a.m. in Room 307 of the Crop Science Building, followed by the defence at 1 p.m. The thesis is "Modelling Seedling Emergence of Pigweed Populations in Corn." The adviser is Prof. Clarence Swanton. □

Profs. Jean Turner and Judy Myers Avis, Family Studies, are authors of "Feminist Lenses in Family Therapy Research: Gender, Politics and Science" in *Family Therapy Research: A Handbook of Methods*.

"Melatonin Reduces Severity of Dextran-Induced Colitis in Mice," an article by grad student Paddy Pentney and Prof. George Bubenik, Zoology, appeared in *Journal of Pineal Research* 19.

"An Immunodominant Epitope on 40 KiloDalton Outer Membrane Protein Is Conserved Among Different Strains of *Haemophilus (Histophilus) somnus*," an article by postdoctoral fellow Primal Silva and Prof. Peter Little, Pathology, and Prof.

Azad Kaushik, Veterinary Microbiology and Immunology, appeared in *Zbl. Bakt.* 282.

Prof. Anne Martin Matthews, Family Studies, is author of "Editorial: Multifaceted and Innovative Answers to Complex Questions" in the *Canadian Journal on Aging/La revue canadienne du vieillissement* 14 (supplemental). She is also author with graduate student Lori Campbell of "General Roles, Employment and Informal Care" in the book *Connecting Gender and Aging*.

Prof. Kevin Kelloway, Psychology, is author of "Structural Equation Modelling in I/O Psychology: Common and Best Practices," which appears in *International Review of Industrial and*

Organizational Psychology, published by John Wiley and Sons.

Kelloway is also author with V.M. Catano and A.E. Carroll of "The Nature of Union Members' Participation in Local Union Activities" in *Behavioral and Social Perspectives on Changing Employment Relations*, published by APA Books.

"Handedness and Its Relation to Other Indices of Cerebral Lateralization," by Prof. Michael Peters, Psychology, appears in *Brain Asymmetry*, published by MIT Press.

Prof. Janet MacInnes, VMI, and Joachim Frey of the University of Bern contributed a chapter on "Genetic Manipulations of Members of the Family Pas-

teurellaceae" to the book *Haemophilus, Actinobacillus and Pasteurella*.

VMI graduate student Thomas Waddell and Prof. Carlton Gyles are authors of "Sodium Deoxycholate Facilitates Systemic Absorption of Verotoxin 2e from Pig Intestine," in *Infection and Immunity* (December 1995).

Graduate student Stephanie Ounpuu, Family Studies, wrote "The Stages and Processes of Change — Applications for Nutrition Education" for the Organization for Nutrition Education's newsletter. □

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Obituaries

Fred Metcalf served on Board of Trustees

Fred Metcalf, a member of the U of G Heritage Fund Board of Trustees and a member of the board's real estate development committee, died Feb. 15 in Guelph at the age of 74.

A pioneer in the development of cable television in Canada, he served as president and chief operating officer of Maclean Hunter Cable TV from 1977 until 1984, when he retired and was named honorary chair. He also co-founded radio station CJOY in Guelph, served as its general manager from 1947 to 1953 and was founding president of the Canadian Cable Television Association.

Mr. Metcalf served overseas during the Second World War, then remained active in the militia, rising to command the 11th Field Regiment of the Royal Canadian Artillery.

Along with his wife, Kathleen, he was also a major donor to the University, recently endowing

the 11th of Guelph's 13 President's Scholarships.

In addition to his wife, he is survived by two daughters, Diane King and Cheryl Seaver, and three sons, Douglas, David and Charles.

Victoria Bloomfield

A memorial service will be held March 1 at 2 p.m. at the Arboretum Centre for Victoria Bloomfield, daughter of Elizabeth and Prof. Gerald Bloomfield, Geography, who died Feb. 11 as the result of an automobile accident. She was 27. She graduated with distinction from Guelph in 1990 with a BA in geography and history and went on to earn a PhD at McMaster. In addition to her parents, she is survived by her twin brother, Andrew. Donations in her memory can be made to Waterloo-Wellington Autism Services, 125 Union St. E., Waterloo N2J 4E5. □

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Creative but painful solutions proposed for \$19.6M shortfall

U of G administrators last week unveiled a plan of action to deal with a projected \$19.6-million shortfall in the 1996/97 Ministry of Education and Training (MET) operating budget. The shortfall results largely from the provincial government's decision to reduce the MET grant to Guelph by \$15.5 million (15.4 per cent) in 1996/97.

The depth and breadth of the impact to the operating budget for the new fiscal year that begins May 1 — and a proposed solution involving a mix of complementary medium-term approaches to cover the massive shortfall — were outlined at three town hall meetings Feb. 15 that drew an estimated 1,200 faculty, staff and students.

Administrators caution that the budget information is a snapshot in time and is likely to change as more details about the transfer cuts are provided by Queen's Park.

Among the proposed solutions to the MET grant shortfall are:

- Reorganizations and reductions in the teaching and non-teaching units amounting to about \$8.9 million. Teaching and non-teaching units will take differentiated cuts to operating budgets averaging 4.9 per cent in teaching units and 7.8 per cent in non-teaching units. Some 121 positions were identified for elimination, 91 through voluntary buyouts or cancellation of vacant positions and 30 through layoffs.

- Revenue increases through higher student enrolment and tuition fees. A proposal to reverse the current five-year plan to reduce student intake will be presented to Senate this month. If approved, beginning this fall, 350 to 400 more first-year undergraduates will be admitted than planned. Guelph is counting on an active recruitment plan and better-than-expected first-choice application statistics (See *At Guelph*, Feb. 14) to generate a net \$3 million more than the \$36 million budgeted for 1996/97. This new revenue reflects expanded first-year enrolment increases in tuition after setting aside funds for student aid.

- A one-time \$2-million claw-back to the operating budgets in the teaching and non-teaching units for 1996/97. This reduction is viewed as "an act of faith" in Guelph's ability to successfully attract new students, said president Mordechai Rozanski, and is a necessary bridging to 1997/98 and beyond in anticipation of the projected additional income flows from increased student enrolment.

- Refinancing the \$7.2-million repayment scheduled for 1996/97 to cover the special deficits created by the 1991 reorganization of the non-teaching units (Cresap) and the 1994 special early retirement program (SERP). The administration plans to propose to the finance committee of the Board of Governors this week that the required \$7.2-million repayment in 1996/97 be reduced by \$5 million. Subsequent repayments will be

restructured over a number of additional years.

Administrators say these solutions would cover \$18.9 million of the estimated \$19.6-million shortfall. The remaining \$700,000 will have to be identified in discussions with employee groups, said Nancy Sullivan, vice-president (finance and administration). Sullivan said she hopes the discussions will focus on benefits. The outcome of these negotiations could help avoid rolling back salaries or further permanent layoffs to cover the \$700,000 gap, she said. Every \$1 million in savings represents about 25 to 30 positions.

At a later date, the administration plans to approach the Board of Trustees of the U of G Heritage Fund with a proposal to access undistributed investment income (not the principal of the Heritage Fund endowment) to finance replacement of critical computing systems for the library, student enrolment and financial reporting that will be outdated by 2000. Some of these purchases will be on a collaborative basis with neighboring universities.

Depending on available funds, the proposal would also include investing in learner-centred and educational technologies in the teaching units.

Preserving quality

The proposed solutions are aimed at preserving the quality of the academic program under difficult circumstances, said Rozanski. He said he deplores the government's disinvestment in education and a value system that does not recognize the importance of education to this country.

He said there's no doubt the measures Guelph must take will lead to service disruptions, reduced support in teaching and non-teaching units, larger classes, higher tuition fees and further deterioration of an aging physical plant that has a \$40-million deferred-maintenance problem.

Layoffs cause sorrow

The town hall meetings were much-anticipated. In recent weeks, several other universities announced plans for early retirements, salary rollbacks, layoffs and across-the-board cuts.

Rozanski said U of G has fared somewhat better because of the flexibility gained by Cresap, the five-year reduction program in the colleges and SERP. Under SERP, some 247 faculty and staff will have retired by April 30, a gross payroll savings of \$16.1 million, of which 30 per cent was originally planned for replacement with the balance allocated to permanently cover social contract reductions and to generate the \$7.2-million SERP dividend. This dividend was originally to have been realized in 1998/99, once the full costs of SERP had been repaid.

The proposed solutions reflect a conscious effort to minimize layoffs, said Rozanski. "We greatly regret the significant pain that some of these solutions, especially the layoffs, will cause our community."

They are not merely a quick fix to an emergency budget situation, he said. The position reductions identified reflect the reorganiza-

tion and restructuring that must occur in all areas of the University if it is to sustain its high academic quality into the future. "Admittedly, the future will see a downsized and deliberately more focused university," he said.

Provost Iain Campbell lauded the efforts of deans and chairs in the colleges and budget managers in academic support and service areas who identified savings and revenue-generating ideas.

"The savings represent a substantial accomplishment," he said. "It is a cruel irony to use words like 'successful' in describing an exercise that has so diminished the resources available for teaching and research. But given our current structure, we have little flexibility to achieve significant additional savings."

Campbell said that budget managers will be held to meeting revenue-generating targets. He stressed that the differentiated cuts to the academic units are not a reflection of each college's wealth, quality or centrality. "No one should draw any conclusions as to particular colleges being more or less important or over or underfunded in a comparative sense."

These non-uniform reductions will be recognized when a new academic resource-allocation mechanism — which is currently under discussion at the Vice-President's Advisory Council (VPAC) — is implemented, he said.

Campbell noted that the 9.6-per-cent reduction in the library is to its operating budget; the acquisitions budget is protected.

Sullivan also commended administrative and support-unit directors and budget managers for their dedicated work in identifying savings that average 10 per cent. The largest aggregate cut is 13 per cent to the executive offices — "as a leadership example," said the president.

Sullivan confirmed that U of G has again been identified by the Council of Finance Officers — Universities of Ontario as having the lowest percentage of central administration salaries and benefits as a percentage (4.8 per cent) of total operating expenses among all Ontario universities.

Staff concerns

Staff and faculty asked some tough questions at the town hall meetings. A member of the U of G Staff Association (UGSA) pointed out that 18 of the 30 layoffs involve UGSA members. Notified by Human Resources Feb. 13, these employees have the right to choose voluntary buyouts or to exercise their rights under the bumping and redeployment procedures defined in the UGSA contract. The remaining layoffs are from the ranks of professional staff and union-exempt employees.

Some employees applauded after a staff member noted that all the layoffs involve support staff and questioned if this would continue. Regrettably, it will, replied Rozanski.

"Although our staff colleagues are essential partners in the operation of the University, Guelph is an academic institution, and its core is teaching and research principally performed by faculty who

hold tenure. This is how the University is organized, and this is the reality."

The president noted, however, that the equivalent of 16 faculty positions are represented in the voluntary departures and vacancies. Until the present reductions, there has been a fairly even split between faculty and staff (14.2 and 15.7 per cent, respectively) who departed the University from the highest point of employment of each group in the early 1990s through the end of SERP in 1996.

The consequences of the reductions, larger enrolment and other changes, including staff leaving, will greatly affect the faculty who remain, Rozanski added. They will have to develop new ways to accommodate increased workloads and the diminished staff support for teaching and research.

Open process

A faculty member said he thought there was a lack of transparency in the data presented and that he had no idea of the rationale used to arrive at some of the figures. Rozanski responded that the information was submitted by the budget managers in each unit to administrators and that the process was iterative. The vice-presidents consulted with deans and directors, who, in turn, developed their budget plans with chairs and budget managers.

In addition, the process was not merely top/down, he said. The President's Budget Advisory Committee (PBAG), which included the chair of the Senate Committee on University Planning (SCUP) and one of its members, was involved in the budget planning throughout.

The president noted that three town hall meetings were held for faculty and staff in December to outline the operating budget and to provide details of its various components. At the same meetings, scenarios of the possible impact of the Nov. 29 reduction announcement were also shared with the community.

U of G's budget-planning process was opened to faculty and staff bargaining groups and associations, and more than half of the budget-cutting and revenue-generating suggestions made through a news group in the fall and in strategic planning found their way into the reorganization and restructuring process. These include:

- restructuring the conference operation, Hospitality/Retail Services, Physical Resources and the human rights and equity operation;
- organizational reviews, now under way, in the Registrar's Office, Graduate Studies and University Affairs and Development and a review just concluded in Institutional Analysis and Planning and the Student Environment Study Group;
- tri-university collaboration for library and student-information systems and academic offerings;
- a review of academic specializations related to strategic planning;
- department/program mergers in several colleges;
- co-operative purchasing agreements with other universities and public-sector groups;

- an energy-saving program; and
- collaborative planning for academic, administrative and student affairs activities with other universities.

Including the Feb. 15 town hall meetings, administrators made eight presentations during that week about the proposed solutions to such groups as PBAG, VPAC, managers and directors, SCUP and the Consultative Forum. These were preceded by numerous budget-planning meetings by and with college deans, budget directors, PBAG, SCUP and others.

There were also discussions about tuition increases with the Central Student Association, the Graduate Students' Association, Student Senate Caucus and student representatives on B of G.

'Double dipping' issue

There was strong audience reaction after a staff member charged that some employees who have left the University are being re-employed.

Vic Reimer, acting assistant vice-president (human resources) said that none of the employees who have taken voluntary buyouts are coming back. As for the 247 employees who took SERP, an average of about six or seven are involved in teaching on limited terms as part-time employees. Reimer said it should be noted, however, that this number fluctuates from semester to semester as needs arise for sessional teaching or non-teaching staff, but has never exceeded 10 in any semester.

The president noted that this arrangement was offered to all employees as an inducement in the SERP program and should therefore not be considered "double dipping."

Pension questions

Several questions were raised about the financial relationship between the SERP deficit and the pension plan. In elaborating on these questions after the meeting, John Miles, assistant vice-president (finance), noted that cash required to finance the deficit does not come from the pension plan. It is financed in the same way a bank loan is financed; cash is borrowed from external lending institutions, such as banks, at market interest costs (see "Financing of the SERP and Cresap Deficit Explained" on page 6).

"We must pay back the special deficit on a B of G-approved schedule of repayments and over a set period of time," said Miles.

Rozanski assured employees that there is still a surplus in the pension plan, and Sullivan noted that the external actuaries will present the valuation of the pension plan to B of G's pension and benefits committee and members of the President's Advisory Council on Pension and Benefits later this month.

Head/heart solutions

Several faculty and staff made comments following the meetings. One employee said the news could have been worse. Another commended administrators for the leadership and courage to come up with "head and heart"

Continued on page 4

Continued from page 3

solutions. Several predicted it will be a "hard call" for B of G, which must give approval to the solutions.

In its review of the budget proposals on Monday, SCUP fully and positively endorsed the proposed solutions and provided comments of endorsement to the finance committee of B of G, which will also be presented to Senate Feb. 27.

New thinking needed

Some 50 students and staff attended the 5 p.m. town hall meeting. Students questioned how the University will be able to focus teaching in a learner-centred environment with increased enrolment.

In response, Campbell said there will have to be a lot of new thinking. New teaching technologies, such as a third audio-visual facility with other universities, offering a combination of large classes and small-group discussions, and more efficient use of the spring semester are all under consideration, he said.

A plan to raise undergraduate and domestic graduate tuition fees close to the maximum 20 per cent allowed by the province and to increase undergraduate enrolment by 350 to 400 students in

1996/97 and in subsequent years is being developed for presentation to SCUP and Senate this month and to B of G for approval in April.

To help students cope, the administration is proposing that 18 per cent of this tuition increase be set aside in the form of student aid — one of the highest "reinvestment funds" being proposed by Ontario universities. Discussions are continuing with U of G students on how to flow this 18 per cent back to students in the form of financial aid.

A floor of \$7,000 is proposed for visa fees for Guelph's international students — currently the lowest level proposed by any Ontario university, said Rozanski. This is down from the current \$13,000 per year.

Students also asked how cuts to operating budgets will affect student services. Brian Sullivan, associate vice-president (student affairs), said it will be difficult to deliver the programs now offered, but every effort will be made to ensure that the cuts are of the kind that do the least to disrupt front-line services to students.

Future unknown

The draft operating budget will go to Senate for consideration and comment this month or next and

to B of G for approval in April. Even then, it will probably go forward without the University knowing the cut to the Ontario Ministry of Agriculture, Food and Rural Affairs contract beyond the \$2 million scheduled in 1996/97, the impact of Ottawa's spring budget, the details of the findings of the three-person MET commission on the future of the province's universities, or what Queen's Park has in mind for universities in the following fiscal year.

"These are extraordinary times," said Rozanski. "We have just suffered the largest cuts to university education in this century. While we are preparing for the future, our plan only covers 1996/97. Our resources are largely sapped and our flexibility practically gone, and we will make sure that Queen's Park hears this very clearly. Whatever next year brings, it will be a whole new ball game, and we will have to function under entirely new rules. Nevertheless, I sincerely believe that the talent and dedication of this community will, as in the past, help us surmount the severe reductions and painful decisions to help sustain this university as a high-quality, but more focused institution." □

Budget offers multiple strategies to meet unprecedented cuts

At town hall meetings Feb. 15, president Mordechai Rozanski and others presented to the University community the proposed budget for the 1996/97 year. This budget responds to the provincial government's Nov. 29, 1995, announcement of severe reductions in funding levels. Further information on Feb. 9, 1996, confirmed that the Ministry of Education and Training (MET) transfer grant to Guelph will be reduced to \$85.5 million from \$101 million, a cut of \$15.5 million (15.4 per cent), reducing the total operating budget to \$183 million.

The administration has been working since early fall to prepare a 1996/97 budget that will enable U of G to preserve the integrity of its academic mission within severely constrained resources, said Rozanski. The proposed budget for 1996/97 is based on recommendations of budget managers throughout the University, implementation of the strategic plan, and input from individuals through the online "ideas" news group and other sources.

The proposed budget is still in a state of flux because Guelph is awaiting direction on the precise implementation of some of the government cuts, particularly the pay-equity grant and the impact of visa-fee deregulation. The budget proposals will be reviewed by Senate and the finance committee of Board of Governors this month and must be approved by the board before implementation.

Despite the fluid nature of the situation, the administration is presenting the budget parameters and proposed solutions to the University community to increase public understanding of the effects of the budget cuts and to alleviate some of the uncertainty and anxiety in the community.

Assumptions

Any budget process starts with a set of assumptions. John Miles, assistant vice-president (finance), presented the initial assumptions on which the 1996/97 budget is based. It is assumed:

1. That in 1996/97, the University is scheduled to repay \$7.2 million of the \$21-million special operating deficit that resulted from the Cresap restructuring (1991/92) and the 1994 special early retirement program (SERP). The board mandated a repayment plan as a condition of SERP's ap-

proval. The debt is currently scheduled to be retired by 1998/99, with savings generated by the vacated positions. Chart 1 shows the repayment schedule.

2. That there will be no major increases in non-compensation items such as utilities.

3. That outstanding items like interest-rate assumptions are minor and will not have a material effect in this draft budget.

4. That with the social contract ending, the pension-contribution holiday will end and return to pre-social contract levels. Similarly, the temporary three days of unpaid leave will end.

5. That the shortfall in tuition fee revenues of about \$1 million from 1995/96 will be covered.

6. That major strategic capital investments for such items as computer systems for the library, student enrolment and financial reporting are not included in the operating budget and will be dealt with in a separate capital budget.

Defining the problem: The initial shortfall

U of G faces an estimated shortfall for 1996/97 of \$19.6 million in the \$160-million MET portion of the overall \$197-million operating budget, which includes the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) agreement. A further \$2-million shortfall is estimated in the \$37-million OMAFRA portion of the operating budget. Miles identified four components of this shortfall: the opening base residual deficit related to the social contract, commitments and reductions prior to the Common Sense Revolution (CSR), cuts resulting from the Nov. 29, 1995, announcement (CSR reductions), and 1996/97 compensation issues.

Chart 2 itemizes the components of the estimated shortfall in the operating budget from both MET and OMAFRA. The OMAFRA shortfall is being handled separately. Estimates are based on projected additional expenditures or savings compared with the current year.

Among the opening base deficit components (A on chart 2), the remaining portion of the social contract cutbacks (originally \$8.5 million in '94/95), which have been funded temporarily through a pension-contribution holiday and days off without pay, will have to become part of the base budget. This will require an esti-

1996/97 Operating Budget
SUMMARY - INITIAL SHORTFALL (\$000's)

Chart 2

ITEM	DESCRIPTION	MET	OMAFRA	TOTAL
A. OPENING BASE COMPONENTS				
A.1	RESIDUAL BASE DEFICIT: <ul style="list-style-type: none"> Balance of Social Contract (1993/94), ECP (Expenditure Control Program). Covered by one-time cuts (three days off & pension savings). Portion of SERP/5 Year Plan reductions were targeted to cover base deficit. OMAFRA contract does not carry a base deficit. 	(3,600)	-	(3,600)
A.2	INCREASE DEFICIT REPAYMENT ACCT. TO \$7.2 MILLION: <ul style="list-style-type: none"> Deficit Repayment Account increases from \$4 M to \$7.2 M. 	(3,200)	-	(3,200)
A.3	FINAL YEAR OF SERP/5 YR. PLAN REDUCTIONS: <ul style="list-style-type: none"> Total net savings of \$12 million: 1993/94 THRU 1996/97. \$7.2 million of which have been allocated to deficit repayment. Remainder to cover Social Contract and ECP grant reductions. 	5,900	500	6,400
SUM A's	OPENING BASE DEFICIT	(900)	500	(400)
B. PRE-CSR (COMMON SENSE REVOLUTION) REDUCTIONS				
B.1	"Internal equity" commitment: <ul style="list-style-type: none"> Local Social Contract - 1993. Increases to 7 employee groups (excluding faculty and UGSA). Calculated at 4.6%. 7 of 11 employee groups. 	(1,800)	(200)	(2,000)
B.2	STATUTORY BENEFITS: <ul style="list-style-type: none"> Estimated net savings. Mainly from planned changes to costs of UIC. 	300	-	300
SUM B's	PRE-CSR BASE COMMITMENTS	(1,500)	(200)	(1,700)
C. CSR REDUCTIONS:				
C.1	1996/97 CSR ESTIMATED REDUCTIONS: <ul style="list-style-type: none"> estimate includes \$922,000 removed in July 1995/96. Based on 15.4% reduction on Guelph's \$101.1 million grants. OMAFRA \$2.0 million is 1995/96 deferred until 1996/97 * 1996/97 not finalized 	(15,500)	(2,000)	(17,500)
C.2	VISA fee deregulation and estimated reduction of Pay Equity grant.	(500)	-	(500)
C.3	OMAFRA CSR - SHARE TO MET SERVICE COSTS RECOVERY: <ul style="list-style-type: none"> Proportional (share) reduction to Service Costs. 	(400)	400	0
SUM C's	Total Estimated CSR Grant Reductions	(16,400)	(1,600)	(18,000)
D. 1996/97 COMPENSATION ITEMS				
D.1	Net benefit increases (GROUP): <ul style="list-style-type: none"> negotiated benefits eg: major medical and dental coverage. result of inflationary and usage. 	(800)	-	(800)
D.2	Other negotiated compensation issues (for example): <ul style="list-style-type: none"> staff incremental step and merit increases. TAPSI (faculty) increases. 	*	*	*
SUM A, B, C AND D		(19,600)	(1,300)	(20,900)

Chart 1

Board-mandated repayment of SERP and Cresap deficit

	Payment	Balance
1994/95	\$ 500	(\$21,100)
1995/96	4,000	(17,100)
1996/97	7,200	(9,900)
1997/98	6,900	(3,000)
1998/99	3,000	—

mated \$3.6 million. The scheduled 1996/97 repayment of the SERP/Cresap deficit is \$7.2 million, up from \$4 million in the current year, adding \$3.2 million to next year's budget requirements. On the positive side, SERP-related salary savings of \$5.9 million in the MET portion of the budget and \$500,000 in the OMAFRA portion will be realized in '96/97 through May 1, 1996, SERP departures.

The "pre-CSR reductions" and commitments (B on chart 2) include "internal equity" pay increases of 4.6 per cent to seven of the 11 employee groups, which were agreed to by all employee groups signatory to the local agreement of the social contract and which come into effect after the end of the social contract, March 31, 1996. This commitment will add about \$1.8 million to the MET portion of the budget and about \$200,000 to the OMAFRA side. Separately, savings of about \$300,000 will be realized because of legislated changes to

statutory benefits.

As Chart 2 clearly shows, the lion's share of the shortfall, or \$16.4 million of the \$19.6-million total, can be attributed to the CSR reductions (C on chart 2). Besides the \$15.5-million decrease in the MET transfer grant and the OMAFRA cut of \$2 million, an estimated \$500,000 reduction is anticipated in the MET pay-equity grant, combined with a loss of fee income from deregulated tuition for international students. Further reductions in the OMAFRA contract are expected and will be dealt with at a later date.

In the compensation category (D on chart 2), the cost of negotiated benefits will increase an estimated \$800,000 if benefit packages remain the same. Other negotiated compensation issues, such as merit, TAPSI and step increases for various employee groups, are recognized as important elements of the budget, but the amount and timing will depend on negotiations with em-

ployee groups. The total amount has not been factored into the \$19.6-million shortfall.

Solutions

In describing the solutions, Rozanski said they do not focus solely on reductions; rather, they reflect a mix of medium-term approaches that seek to meet immediate needs and protect those functions essential to sustaining Guelph's academic quality.

A governing principle in covering the \$19.6-million shortfall has been to minimize the effects on people by seeking creative alternatives to large-scale layoffs or compensation rollbacks. A significant part of the plan involves revenue-generating initiatives as well as deficit financing and other bridging strategies.

The proposed solutions fall into four categories (see chart 3 for a summary):

- reorganizations and reductions (\$8.9 million);
- new net tuition fee revenue (\$3 million);

- one-time operating-budget reductions, "bridging" to anticipated new enrolment revenues in 1997/98 (\$2 million); and
- restructuring of the special deficit (from SERP and Cresap) repayment schedule (\$5 million) and the cost of the CSR buyouts and separations, which will be self-financing over one to two years (\$1.45 million).

There has been a conscious effort to distribute the cuts differentially rather than across the board. The contribution of individual units to the current proposed solutions is based on capacity and structural flexibility (see chart 5).

Reorganizations and reductions

Reorganizations and reductions in teaching and non-teaching units, amounting to \$8.9 million, include new revenue generation, voluntary and involuntary reductions in staffing levels, and non-staff expense reductions. Operat-

ing budgets will be reduced by an average of 4.9 per cent in teaching units and 7.8 per cent in non-teaching units (see chart 4). Ancillary operations will also be making an increased contribution of \$290,000 to the operating budget.

As a result of these reductions, 121 positions will be eliminated. Ninety-one (75 per cent) of the position reductions will be accomplished through voluntary buyouts and the cancellation of vacant positions, including some SERP vacancies that were scheduled for replacement.

The "deep chill" on hiring that has been in effect since Aug. 1, 1995, has helped minimize the effect of position reductions on individual employees. Regrettably, however, involuntary departures could not be avoided, given the severe nature of the reductions. Some 30 of the 121 identified position reductions involve involuntary departures. This number, representing 5.8 per cent of the total proposed solutions and 0.8 per cent of the MET base budget, reflects a deliberate effort at Guelph to minimize layoffs.

Overall, position reductions account for 54 per cent of the \$8.9-million savings achieved through reorganizations and reductions. Position reductions account for 24 per cent of the \$18.9 million of the proposed solutions and 3.3 per cent of the MET base budget.

Of the 121 positions being eliminated, 53 are in teaching units and 68 are in non-teaching units. The equivalent of 16 faculty positions are being eliminated through vacancies and voluntary departures.

Tuition fee revenue

Increased enrolment and higher tuition fees will contribute an estimated \$3 million net in additional tuition fee revenue.

In 1995/96, actual enrolment brought in less than the budgeted \$36 million due to several factors — a small decrease in Guelph's retention rate of 91 per cent, a drop in part-time student enrolment and the "flow-through" of the five-year plan to decrease enrolments.

The administration will be proposing to Senate an active student-recruitment plan to increase enrolment in each of the next several years, reversing the plan of the previous five years. This will result in a net increase of \$3 million in 1996/97 after allowing for student aid. The increase is expected to be significantly more in subsequent years.

Discussions have been held with student groups about tuition fee increases. It is likely that tuition will increase close to the full 20 per cent on average, but it is proposed that 18 per cent of that increased fee revenue be used for student financial aid.

One-time operating-budget reductions

One-time operating-budget reductions of \$2 million in teaching and non-teaching units — in addition to the reorganization and reductions mentioned previously — will bridge to the additional \$2 million in tuition fee income anticipated in 1997/98 as a result of the more active recruitment strategy. Identifying this cut as a one-

MET 1996/97 OPERATING BUDGET CURRENT PROPOSED SOLUTIONS (\$000's)						Chart 3	
	Revenues		Expense Reduction		Refinance	Total	
	Base	1-time	Base	1-time	Deficit		
INITIAL SHORTFALL							(19,600)
A. Reorganization and Reductions:	830	250	7,820			8,900	
B. Net New Tuition & Enrolment Revenues	3,000					3,000	
C. One-Time Reductions: Bridging to Increased Enrolment in 1997/98.				2,000		2,000	
D. Repayment Plan							
- SERP/CRESAP Refinancing					5,000	5,000	
- Buyout & Separation Costs				(1,450)	1,450	0	
	3,830	250	7,820	550	6,450	18,900	
% of Total Solutions	20.3%	1.3%	41.4%	2.9%	34.1%	100.0%	
REMAINING SHORTFALL							(700)

MET 1996/97 OPERATING BUDGET CSR REORGANIZATIONS & REDUCTIONS REDUCTIONS BY TYPE (\$000's)						Chart 4	
	Revenue Increases	Non-Position Reductions	<----Positions---->		Total \$	% of Base	
			Voluntary	Involuntary			
TEACHING UNITS	508	1,393	1,463	681	4,045	4.9%	
NON-TEACHING UNITS	575	1,592	2,192	470	4,829	7.8%	
TOTAL BASE	1,083	2,985	3,655	1,151	8,874	6.1%	
% OF R/R's	12.2%	33.6%	41.2%	13.0%	100.0%		
% Total Solution	5.4%	14.9%	18.3%	5.8%	44.4%		
% MET Base	0.7%	2.0%	2.5%	0.8%	6.1%		

Continued on page 6

Continued from page 5

time clawback avoids the need for more layoffs and permanent cuts at this time.

Restructured deficit-repayment schedule

At the start of the 1995/96 fiscal year, the University had a cumulative operating deficit of \$21 million, largely as a result of one-time costs incurred in two major restructuring programs — the 1991 Cresap reductions in non-teaching units and the 1994 SERP (see "Financing of the SERP and Cresap Deficit Explained" on page 6).

The board-mandated repayment plan committed the University to eliminating this special deficit by the 1998/99 fiscal year. The University has met the repayment schedule to date, and by the end of the 1995/96 fiscal year, the deficit will be \$17 million.

The president will ask B of G to reconsider the repayment schedule for the deficit in view of the unprecedented reduction in government support. With the MET cut of \$15.5 million, the \$7.2-million repayment scheduled for 1996/97 would be unmanageable in one year, said Rozanski, and it would further undermine the quality of the University. It would also be counterproductive to ongoing efforts to implement major restructuring based on the University's strategic plan. The board will be asked to approve a \$5-million reduction in the scheduled payment of \$7.2 million and a plan to spread the repayments over a longer period.

In addition, the University will incur about \$1.45 million in costs for the buyouts and separations occurring as a result of the current cuts. These will be self-financing because there will be no replacements, and costs should be recovered in one to two years.

These proposed solutions cover \$18.9 million of the estimated \$19.6-million shortfall. It is hoped that the remaining shortfall of \$700,000 can be covered through savings in various compensation categories such as benefits. Discussions with all employee groups will begin soon.

Negotiations with various employee groups will also deal with the important issues of compensation and career progress and merit considerations. Rozanski said he hopes these discussions will "allow us to develop creative solutions that respect concepts

such as reward for merit, but that also recognize our financial reality."

When the budget goes to the board, it will have to incorporate, by one means or another, \$19.6 million in reductions to meet the identified budget shortfall, he said.

Capital investments

The budget solutions presented apply to the MET operating budget and do not address major strategic capital investments that are required in university computing information systems (such as student information, library and financial) and in learner-centred and educational technologies. These infrastructure investments are essential for operational effectiveness, cost containment and reduction, and restructuring efforts. A plan to address these essential needs is being developed for presentation to B of G and the Heritage Fund Board of Trustees.

Cuts will hurt

The proposed solutions will regrettably lead to much pain, loss of colleagues and a further decline in morale on campus, said Rozanski. They will result in service disruptions such as visible reductions in building and grounds maintenance, reduced secretarial/technical support in teaching and non-teaching units, and a reduction in Guelph's ability to provide lecture and laboratory classes and infrastructure support for research activity.

Teaching units will have to cope with budget cuts by increasing class sizes, as well as by increasing efforts to restructure administration and curriculum and to develop new teaching approaches. Students will pay higher fees as they share a greater burden of the cost of education.

"We well recognize that the University community will have to come together under very difficult circumstances to shape Guelph's new future," said Rozanski. "We remain hopeful that through the dedication and creativity of our faculty, staff and students, the University will endeavor, as it has in the past, to meet these new and formidable challenges. I am confident we will do everything we can to sustain the quality of the University of Guelph under constrained circumstances." □

Financing of the SERP and Cresap deficit explained

The University is currently carrying a \$21.1-million accumulated operating deficit as a result of one-time charges for both the 1991/92 Cresap restructuring program (\$4 million) and the special early retirement program (SERP) approved by Board of Governors in 1994 (\$17.1 million). Several questions have arisen at the town hall meetings about these deficits, repayment obligations and how they are financed.

John Miles, assistant vice-president (finance), explains the deficit:

For the Cresap portion of the deficit, cash payments were made to individuals for buyouts. The total amount of the payments was an immediate charge to the operating fund, and all cash payments were made from the operating fund. Additional interest costs incurred because of these payments are a direct charge to the operating fund.

For SERP, the total initial calculation of the cost of the program was \$26.2 million, excluding costs of financing the expenses over the duration of the program.

Because the University had incurred an irrevocable financial obligation at the time of the SERP approval, it was required to record the entire \$26.2-million expense in the 1993/94 operating fund regardless of the timing of the required cash flow. This treatment is consistent with early retirement programs in both the public and private sector and is a strict requirement by the external auditors for finan-

cial statement certification.

SERP cash requirements consist of all lump-sum payments, all bridging payments to individuals until they reach age 65 and cash contributions to the pension plans to limit the SERP costs in those plans to \$10 million. This last item was part of the original agreement with employees and required a special \$4.6-million cash contribution to the pension plans by the University in 1994/95.

It is expected that by May 1, 1996, the University will have paid out about \$15 million in cash from the operating fund. Any borrowing needed to meet overall operating-fund cash-flow requirements is arranged through external lending institutions such as banks, and interest costs are charged directly to the operating fund. Nothing has been borrowed from the pension fund to meet this obligation.

The cash obligations remaining after May 1, 1996, (when the last of the lump-sum payments will be made) are limited to the bridging payments, which again will be a direct charge to the operating fund to a maximum of 10 years, when the last of the SERP retirees reaches 65. All cash requirements will be met from operating-fund cash sources, such as salary savings released by departing SERP retirees, and, as required on a temporary basis, with loans from external lending institutions. □

Chart 5
1996/97 Reductions and Reorganizations

	CSR Revenue Increases	%	CSR Expense Reductions	%	Total R/R	%
ARTS			(470)	-4.5%	(470)	-4.5%
CBS			(557)	-4.6%	(557)	-4.6%
FACS			(190)	-3.2%	(190)	-3.2%
OAC	(350)	-2.9%	(504)	-4.2%	(854)	-7.1%
OVC	(140)	-1.1%	(752)	-5.9%	(892)	-7.0%
CPES			(793)	-5.3%	(793)	-5.3%
CSS			(257)	-2.2%	(257)	-2.2%
Other Teaching	(18)	-1.4%	(14)	-1.1%	(32)	-2.5%
Total Teaching Units	(508)	-0.6%	(3,537)	-4.2%	(4,045)	-4.9%
Library Operations	(60)	-0.9%	(553)	-8.6%	(613)	-9.6%
Graduate Studies			(73)	-9.9%	(73)	-9.9%
Office of Research			(184)	-9.7%	(184)	-9.7%
Registrar			(239)	-9.7%	(239)	-9.7%
Other Academic Serv			(28)	-3.4%	(28)	-3.4%
Total Academic Serv	(60)	-0.4%	(1,077)	-6.5%	(1,137)	-6.9%
Computing/Comm Ser			(567)	-10.0%	(567)	-10.0%
Student Services			(338)	-11.0%	(338)	-11.0%
Univ Affairs & Development			(230)	-9.0%	(230)	-9.0%
Physical Resources	(80)	-0.5%	(826)	-4.9%	(906)	-5.4%
Utilities			(300)	-3.0%	(300)	-3.0%
Total Physical Plant	(80)	-0.3%	(1,126)	-4.2%	(1,206)	-4.5%
Human Resources			(135)	-5.8%	(135)	-5.8%
Executive Offices			(286)	-13.0%	(286)	-13.0%
Financial Services	(145)	-4.9%	(206)	-7.0%	(351)	-11.9%
Security Services			(168)	-10.1%	(168)	-10.1%
Total Administration	(145)	-1.6%	(795)	-8.7%	(940)	-10.3%
General Expenses			(121)	-2.5%	(121)	-2.5%
Ancillary Recoveries	(290)	-4.2%			(290)	-4.2%
Total Non-Teach Units	(575)	-0.9%	(4,254)	-6.8%	(4,829)	-7.8%
Net Expenses	(1,083)	-0.7%	(7,791)	-5.3%	(8,874)	-6.1%

Do you have questions about the proposed budget?

Ask the experts:

- John Miles, assistant vice-president (finance), jmiles@fin.uoguelph.ca
- Nancy Sullivan, vice-president (finance and administration), sullivan@exec.admin.uoguelph.ca

For extra copies of this budget report, call University Communications at Ext. 6582. □

CALENDAR

FRIDAY, Feb. 23

Land Resource Science Seminar - Environmental scientist Anthony Young of the United Kingdom discusses "Agroforestry and Soil Management: False Hopes or Real Achievements" at 3:10 p.m. in Richards 124.

MONDAY, Feb. 26

Black History Month - The Black Theatre Workshop of Montreal presents the children's play *A Cat and A Dog* at 2 p.m. in War Memorial Hall. Admission is \$4.

TUESDAY, Feb. 27

Food Science Seminar - Arleen Yee of the Ontario Agriculture and Food Lab Services talks about "Looking for Antibiotic Residues in Ontario Food" at noon in Axelrod 117.

Canadian Studies Lecture - "The Portrayal of Gender in Advertising Images" is the focus of Prof. Linda Hunter, Sociology and Anthropology, at 1:30 p.m. in MacKinnon 226. Cost is \$15. To register, call Ext. 3064.

Chemistry and Biochemistry Seminar - Jim Baleja of Tufts University discusses "Solution Structure of the Membrane-Binding Domain of Coagulation Factor IX" at 2:10 p.m. in MacNaughton 222.

Mathematics and Statistics Seminar - Hans Heinig of McMaster University talks about "Inequalities in Weighted Function Spaces" at 3:10 p.m. in MacNaughton 202.

Physics Seminar - Clifford Will of the McDonnell Centre for the Space Sciences at Washington University in Missouri asks: "Was Einstein Right?" at 4 p.m. in MacNaughton 113.

WEDNESDAY, Feb. 28

Third Age Learning - The lecture series for retired people continues with Prof. Theresa Lee, Political Studies, discussing "China and Democracy" at 10 a.m. and Prof. Ric Knowles, Drama, examining "King Lear and As You Like It by William Shakespeare" at 1:30 p.m. Lectures are at the Arboretum Centre.

Black History Month - The House of Velvet performs at noon in the UC courtyard.

Information session - The College of Arts outlines its spring-semester offerings from noon to 3 p.m. in MacKinnon 107.

Biochemistry Seminar - Gilbert Prive of the Ontario Cancer Institute and the University of Toronto considers "Fusion Proteins as

Tools for Membrane Protein Crystallization" at 12:10 p.m. in MacNaughton 222.

Forum - Mark Cullen, president of Weall and Cullen Nurseries Ltd. and this year's entrepreneur-in-residence in OAC, will explain "Effective Communication" at 7:30 p.m. in Chemistry and Microbiology 160.

THURSDAY, Feb. 29

Pathology Seminar - Graduate student Rocio Crespo discusses "Investigation of the Air Sacs of Turkeys and Their Mechanisms of Defence" at 11:10 a.m. in Pathology 2152.

Fine Art Seminar - Performance artist Tanya Mars discusses her work at noon in Zavitz 320.

Reading - The Department of English and Canada Council present Donna McFarlane reading from her first book, *Division of Surgery*, at noon in MacKinnon 224.

Concert - Cellist Paul Pulford and pianist Boyd Macdonald perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - The Counselling Unit hosts a session on "Understanding Your Moods" at 5 p.m. in UC 334.

Film - *Spinal Tap* begins at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, March 1

Human Biology and Nutritional Sciences Seminar - Lorraine Deforest considers "The Effect of Dietary Zinc Repletion on Gastrointestinal Mucosal Defence in the Rat" at 11:10 a.m. in Animal Science/Nutrition 141.

Evolution and Systematics Seminar - Douglas Currie of the Royal Ontario Museum discusses "Conservation Issues and Biodiversity in Vietnam" at 3:10 p.m. in Axelrod 259.

MONDAY, March 4

Concert - The departments of Music and French Studies present Boubacar Diabate performing West African music on the kora at 12:10 p.m. in MacKinnon 107. Admission is free.

Animal Welfare Lecture - The Colonel K. L. Campbell Centre for the Study of Animal Welfare presents "Yes, Millimetres Do Matter: Behavior-Based Design of Animal Equipments" with Stanley Curtis at 7:30 p.m. in OVC 1714.

TUESDAY, March 5

Chemistry and Biochemistry Seminar - "Therapeutic Potential for Matrix Metallo-Proteinase Inhibitors in the Treatment of Arthritis-Enzyme Structure and Inhibitor Design" is the focus of Carl Decicco of Dupont Merck at 2:10 p.m. in MacNaughton 222.

Physics Colloquium - Prof. David Elrick, Land Resource Science, discusses "From Nuclear Physics to Soil Physics: The Hanford Experiment" at 4 p.m. in MacNaughton 113.

WEDNESDAY, March 6

Third Age Learning - The lecture series for retired people continues with Prof. K.C. Tan, Geography, explaining "Rural-Urban Migration in China" at 10 a.m. and Prof. Ann Wilson, Drama, exploring "Sweet Bird of Youth by Tennessee Williams" at 1:30 p.m. Lectures are at the Arboretum Centre.

Scottish Studies Seminar - Luca Codignola of Genoa discusses "The Creation of a North Atlantic Network, 1350-1700: Roman Catholicism as an Overall Context" at noon in MacKinnon 132.

Biochemistry Seminar - Jorg Kunte, Microbiology, considers "Compatible Solute Synthesis and Accumulation in *Halophilic eubacteria*: Genetic Manipulation and Biotechnical Exploitation" at 12:10 p.m. in MacNaughton 222.

Canadian Studies Lecture - "Canadian Political Editorial Cartoon Analysis" is the subject of Roy Morris of York University at 3:30 p.m. in MacKinnon 226. Cost is \$15. To register, call Ext. 3064.

Plant Biology Seminar - Kathy Dobinson of Agriculture and Agri-Food Canada considers "Field and Molecular Studies of *Verticillium dahliae* Race 2" at 4 p.m. in Axelrod 117.

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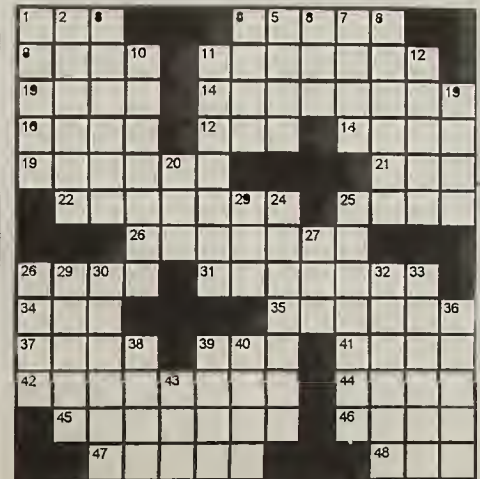
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Canadian Criss Cross by Walter D. Feener

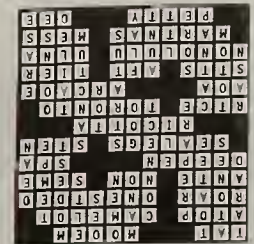


ACROSS

1. Cellulite
4. Telecommunications device
9. On
11. King Arthur's court site
13. Wind sound
14. Biased
16. Before prefix
17. Not prefix
18. Dotted in heraldry
19. Intensify
21. Mineral spring
22. What Popeye has
25. British gun
26. Italian cheese
28. Pilaf ingredient
31. Ontario capital
34. Dentist group
35. Gallery
37. Holds a session
39. Astem
41. Child's apron
42. Hawaii capital
44. Forearm bone
45. Boat basins
46. Disorganization
47. Insignificant
48. Fourth letter

DOWN

1. Unit of capacitance
2. Makes expiation
3. Exactly
4. ___-war
5. Premonitory sign
6. French prepositions
7. Former Greek Department
8. Unassuming
10. Make ready
11. Join together
12. Apollo's sacred vale
15. "Rebel Without a Cause" actor
20. Inventor Whitney
23. Paste
24. Low-lying cloud
25. Sacred place
27. High, rocky hill



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WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □

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Community

NOTICES

Vanier to speak

Jean Vanier, founder of the l'Arche movement, will give a free public talk entitled "Call to Community: A Reason to Hope" Feb. 28 at 7:30 p.m. at St. John's Church, 45 Victoria Rd. S. The talk is sponsored by Ignatius Farm Community and the University Catholic community. For more information, call Phil Nazar at Ext. 2391.

GFTC offers workshops

The Guelph Food Technology Centre is holding a number of skills-focused workshops during March, including "Getting Ready for HACCP," "Hazard Analysis and Development of Your HACCP Program," "Selecting a Co-Packer" and "The Cost of Quality." For registration information, call Marlene Inglis at 767-5036. For course information, call Kathryn Cooper at 767-5025.

Prints on exhibit

Fine art lecturer Kim Huynh presents an exhibition of prints called "Being Letters" Feb. 29 to March 3 in the Zavitz Gallery. The gallery is open Monday to Friday from 9 a.m. to 5 p.m.

College Women's Club

The College Women's Club meets March 5 at 8 p.m. at the Arboretum Centre. Guest speaker is Prof. Ian Duncan, chair of animal welfare, who will discuss "What do Animals Feel?" For more information, call Betty-Anne Stammers at 822-4051.

Author to read

The Department of English and Canada Council present Donna McFarlane reading from her first book, *Division of Surgery*, Feb. 29 at noon in Room 224 of the MacKinnon Building. Shortlisted for a 1994 Governor General's Award, the book explores institutionalized medicine and the personal experience of life-threatening illness. Everyone is welcome.

Black History Month

The Methodist Club of U of G and the Guelph BME Church will celebrate Black History Month Feb. 25 with songs, drama and fellowship beginning at 3 p.m. at 83 Essex St.

OAC alumni bonspiel

The 38th annual OAC alumni bonspiel is slated for April 12 and

13. Both competitive and social events are scheduled. Deadline for entries is March 4. For information or an entry form, call Alumni House at Ext. 6936.

Herpes support group

A support group for people living with herpes meets every other Monday at the Guelph Community Health Centre. Anyone who has been diagnosed with herpes is welcome to attend. For more information, call the University's Wellness Centre at Ext. 3327.

Deadline nears

The deadline for graduating students to have their résumé entered in the *Business and Management Résumé Book* is March 8. Cost is \$20. For more information, call the Marketing Society at Ext. 6759 or send e-mail to mktgsoc@uoguelph.ca. □

JOBS

As of At Guelph deadline Feb. 16, the following opportunity was available to on-campus employees only:

Secretary to Assistant Director, Facilities Services, Student Housing Services, temporary from March 19 to May 19/96. Salary: \$13.17 to \$14.71 an hour. Removal date: Feb. 23.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

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Friday 9:30-8:30 p.m.
Saturday 9:30-5:00 p.m.

Rural extension specialists to form collective vision

Rural Futures '96, a conference of rural extension specialists, is being held on campus March 7. Conference participants ranging from rural residents to students and representatives of organizations and government will focus on developing a collective vision of the future of rural communities.

The Department of Rural Extension Studies and the Canadian Society of Extension are hosting the conference, which runs from 8:30 a.m. to 4:30 p.m. at the Arboretum Centre. A panel of repre-

sentatives from agencies, business and government will kick off the day by asking: "What is the greatest single challenge facing rural Ontario and how can it be resolved?"

For more information or to register, call Lisa Armstrong in the Department of Rural Extension Studies, Ext. 6121, fax to 836-9941 or send e-mail to rfutures@tdg.uoguelph.ca. Check out the World Wide Web page at http://tdg.uoguelph.ca/rural_futures. □

POLICE BEAT

The following University Police occurrence statistics for January were provided by Security Services liaison officer Robin Begin.

Disturbances and malicious damage: There were 15 occurrences, most involving damage to windows, doors and washrooms. Two charges were laid.

Harassment and assaults: A female student in Lambton Hall reported being verbally harassed by a male student Jan. 19. The case is under investigation by University Police and Student Housing Services. There was also one case of a male committing an indecent act in P.13.

Liquor-related offences: Police issued two charges under the Liquor Licence Act for public intoxication and arrested an individual driving on Winegard Walk and the entrance mall Jan. 20. This person was charged with impaired driving, driving over 80 and driving while under suspension under the Highway Traffic Act.

Thefts: Seventeen incidents involving University and private property were reported. The property included wallets, money from cashboxes, a parking permit, a laptop computer, a jacket

and clothing, a stereo, an electric pencil sharpener and a telephone.

Trespassing: Campus police laid one soliciting charge under the Trespass to Property Act and issued one warning.

Vehicle offences: There were reports of one hit-and-run accident and one car not stopping at a crosswalk.

Other police activities included cash security escorts, drug and fraud investigations, emergency medical escorts, and a missing-person investigation.

In light of the large number of wallet thefts during the past month, Begin reminds members of the University community to keep their personal property with them at all times.

"Never leave your wallet unattended because theft takes seconds to occur," she says. □

CLASSIFIEDS

FOR SALE

Border collie pups from working stock; 1987 Suzuki Samurai jeep, Sarah, Ext. 3010 or 763-8217.

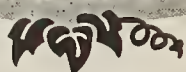
Three-bedroom home on quiet cul-de-sac, walk to schools, campus, downtown, hardwood floors, high-efficiency gas, 767-9872.

Four-bedroom home in old University area, four baths, two fireplaces, gas heat, central air, fenced yard, possibility of income through rental of basement apartment, Kim, 836-0737.

AVAILABLE

Pet sitting by veterinarian, security-cleared individual, Janis, 766-0634.

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AT GUELPH

40th
Year

Volume 40 No. 8

University of Guelph, Guelph, Ontario

February 28, 1996

AT A GLANCE

Get set for College Royal. U of G's 72nd annual student-run open house, the biggest of its kind in Ontario, is slated for March 16 and 17. About 20,000 visitors are expected for the event, which runs Saturday from 9 a.m. to 5 p.m. and Sunday from 10 a.m. to 5 p.m. This year's theme is "Evolution of Excellence." All the traditional events are back — the livestock show, the chemistry magic show, a petting zoo and cat and dog shows. Something new this year is a fly-fishing exhibit, featuring Ian James of Guelph. Visitors are invited to collect fur and feathers from their pets and make them into unique fishing fly ties. See the March 6 issue of *At Guelph* for a special supplement on College Royal.

Safety audit update. Most of the 20 METRAC recommendations have been completed... *page 3*

Feeling the pressure. Campus water mains are breaking in record numbers... *page 3*

One-stop shopping. Guelph's conference unit takes all the worry out of planning a major event on campus... *page 4*

Natural hormone touted. There's no good reason why melatonin shouldn't be available in Canada, says zoology professor George Bubenik... *page 5*

Chemical exposure under study. Farm families participate in a landmark pilot project on pesticides... *page 5*

Included with this issue of *At Guelph* is an insert from the Bookshelf Cinema

Thought for the week

It may be those who do most, dream most.

Stephen Leacock



Carole Ann Lacroix, assistant curator of U of G's herbarium, displays dried trilliums that are part of the 88,000-strong specimen collection. See story on page 5.

Photo - Kerith Waddington, University Communications

GUARD Inc. issues preliminary prospectus

A plan to raise \$9 million for Guelph University Alumni Research Development (GUARD) Inc. has been launched. At the end of January, GUARD issued a preliminary prospectus for what will be an initial public offering (IPO) of shares in March.

The \$9 million is in addition to the \$1.2 million GUARD has raised from individual and corporate founding investors over the past six months.

A preliminary prospectus is followed by a final prospectus, after which shares are sold. These administrative measures are governed and dictated by provincial securities commissions.

GUARD is a U of G/alumni partnership designed to commercialize campus inventions and other intellectual property in support of research at Guelph. The initial public offering will build

on the \$2.1-million foundation to help GUARD fulfil its goal of developing inventions into profitable businesses.

Shares are expected to be offered to investors, with a minimum investment threshold of \$1,000.

GUARD is unique in Canada, says Ron Moses of the Office of Research, president of GUARD. No other university has developed a similar for-profit technology-management company dedicated to establishing receptor businesses related to U of G's strengths. GUARD's primary goal is to convert its portfolio of inventions and developments into new business enterprises, to bridge the gap between the research and business communities.

See IPO on page 3

Scholarship keeps farm heritage alive

by Barbara Chance
University Communications

The farming legacy of a Blenheim family will live on at U of G in the form of a new scholarship for undergraduate students.

Paul and Aileen Clarke and their five children — Janis, Paula and Julie of London and Jon and Greg of Toronto — are donating \$200,000 to create a scholarship in memory of Paul's parents, the late Blanche and Jack Clarke, Blenheim-area farmers. The funds come from the sale of the family farm.

Paul Clarke sees the scholarship as an opportunity to pass on his family's farming heritage to future generations.

"Fifty or 60 years ago, many farmers held their land as a sacred trust — they didn't consider it really theirs, but an asset 'belonging' to future generations," he says. "They made a livelihood off the land, but they also improved it to pass on to their children. And their children did the same. That's the philosophy I like to think of in farming. It's a wonderful feeling that the ground you're walking on is the ground your ancestors walked on."

But Clarke was worried that his family's legacy would disappear because none of his children were interested in the farm and it had to be sold.

"I decided that when I did sell

the farm, I was going to ensure that it continue forever to provide sustenance to young people who have at least some remote link to agriculture," he says. And so the idea of a scholarship was born. He chose Guelph for the award because it is "more linked to agriculture than any other university."

Clarke is pleased that he has found a way to preserve the idea of passing on his family farm to new generations forever, as well as to pay tribute to his parents. "I hope that other farmers who are coming to the end of the road will consider the same thing."

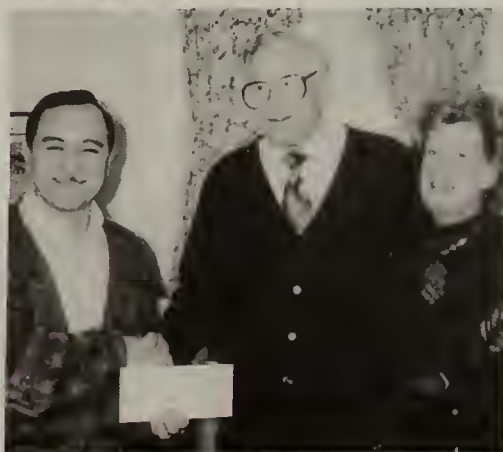
President Mordechai Rozanski says U of G is grateful for this support for scholarships.

"This is a very significant gift from a family that has a long-standing connection with Guelph," says Rozanski. "I am pleased that these ties will continue through this gift."

The P.A.J. Clarke Family Award will provide \$2,500 a year for four years to an entering student with a minimum A average and a record of leadership and community participation. Preference will be given to candidates from Blenheim district and Kent County and who were raised or worked on a farm. Recipients must maintain an 80-per-cent average.

Paul Clarke has developed a unique grading system for schol-

See FIRST on page 3



Paul and Aileen Clarke of Blenheim present a cheque to president Mordechai Rozanski for a new undergraduate scholarship.

Photo - Marilyn Robinson, UA&D

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COMMENTARY

Learning, training go on side by side naturally at universities

The Jan. 24 commentary by Prof. Sandy Middleton, "Leamer Centredness and the Learning Objectives: A Response," provided insight into the state of universities today and how we came to be that way.

He discussed the increase in the number of professional programs offered by Guelph and noted parallels in the attitudes of many undergraduate students, who worry about becoming competitive in the job market, who don't seem interested in the deeper issues that a university must explore and who seem to "clamor for training" rather than "learning."

Perhaps the problem lies in the way we describe our university and its offerings or the way we

sell our university to prospective students. There must be something we're telling them that makes them expect a job-oriented "professional" education rather than a deeper and more valuable liberal education.

As one who has degrees in both engineering and science and who has worked for years on both the agricultural and science sides of this campus, I think the problem may lie in a distinction that almost everyone takes for granted but rarely expresses. This unspoken and unexamined assumption artificially distinguishes applied science from pure science, a distinction no one really believes anyway. Indeed, all the distinctions we habitually make at a uni-

versity are made for the sake of argument and have no value except in the abstract.

In the Corning Glass Museum in New York, there is a wonderful glass sculpture of a person's head with a glass voice bubble emerging from its mouth that says: "Technique is cheap." Technique is always changing, but scientific know-how and understanding underlie mere technique. And technique itself feeds science, as when a graduate student slaving away in some dank university laboratory devises a new method of chromatography, gaining perhaps a master's degree in some "professional" discipline and giving a new technique for exploration and the improvement of understanding.

People who teach are often dismissed as mere technicians. For that matter, so are medical doctors. Engineers are valued in a technological consumer-driven society, but teachers of engineers and technicians are not considered all that valuable. Researchers, on the other hand, are still able to convince the population that they are doing something important and different, although the general population is growing less inclined to believe them. The crisis in universities is a manifestation of a crisis in unexamined but very real assumptions.

Universities are great places, where both learning and training go on side by side readily, easily and naturally. If we can drop our unexamined distinctions of all sorts, perhaps the natural beauty and purpose of our universities will emerge again — places where teaching and learning are all that go on and distinctions are made for the purposes of exploration and debate, for stretching the

mind, for creating challenges and for confronting bias and superficiality.

Universities like Guelph, which is strong in both professional and research pursuits, are in an enviable position of strength. Through its employees, each of whom is gifted, the University can provide excellent learning opportunities in the area of technical skills development through short workshops, as well as in research and other philosophical pursuits in a wide range of disciplines through longer, more traditional deep explorations.

I'm not suggesting anything new. The people at U of G already provide this learning environment, but we don't see it easily. We are confused and baffled by the assumption of difference where none really exists. At Guelph, we are more a community than we are a collection of individuals tagged according to discipline or job status, and as a community, we can work together to set aside the differences and redundancies that seem to be blocking our progression towards the vision of reform offered in the most recent strategic plan.

We can do it. We can survive, we can stay alive and we can continue to contribute top-quality learning environments to all who care to enter here. We are bringing ourselves down when we get hung up on differences we should be celebrating rather than condemning.

There is so much going on here that is really amazing, brilliant, bordering on genius — adminis-

trative units such as Computing and Communications Services, which provides the campus with outstanding computer network capability and excellent help through its help line, and the library, which continues to provide world-class service under ever-increasing fiscal pressure. There is real genius, both technical and academic, that lives in the minds of the people who work in these administrative units as well as in every other department and group on campus.

Somehow, we've got stuck on the differences and addicted to the thrill of competition. We respond to diminishing resources by excluding others instead of embracing them and welcoming them to share in finding solutions to our difficulties.

Prof. Sandy Middleton, an award-winning teacher and a pioneer in developing learning technologies, has long been active in curriculum development, and the points he makes in his article are worth studying. Prof. Constance Rooke is also an award-winning teacher who has given much thought to the curriculum. Guelph's curriculum is in good hands. We must simply let go of our tightly held distinctions and celebrate a little. We have come through years of fiscal trauma and are still here, maybe even somewhat more fit and less mean. I'd say things are looking up.

Brent Mersey
Teaching Support Services

LETTERS

Old papers offered earlier

I was interested and pleased to read in the Jan. 24 issue of *At Guelph* that the Macdonald Institute class of '35 had retrieved the historical menus from the effects of Mabel Sanderson, a former professor at Guelph, and donated them to the University.

When Mabel was forced to go into a nursing home in December 1994, I had the responsibility of clearing her house in preparation for sale. The contents included two large, well-organized filing cabinets of professional papers. Before even one paper was discarded, I telephoned the University to ask if someone would like

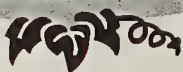
to check them out. I spoke to several people, but the answer was "no." My impression was that they had no time for that "old stuff."

Perhaps the University should have policies and procedures to deal with offers of papers and other items that may have archival value.

My husband and I are both graduates and supporters of the University, and we were disappointed by the total lack of interest.

Linda Johnston, Mec '61
Ashton, Ont.

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Most of METRAC safety recommendations completed

by Kerith Waddington
University Communications

Most of the 20 recommendations contained in the Metro Action Committee on Public Violence Against Women and Children (METRAC) 1993/94 safety audit of U of G have been implemented. Five recommendations are targeted for completion by 1998.

The U of G indoor-safety audit checklist was developed by METRAC, a group formed by the Council of Metropolitan Toronto in 1984 in response to a rise in violence in the city.

Aimed at addressing the concerns of campus communities about safety and security in and around buildings, the audit — a series of meetings with staff, faculty and student representatives, training sessions and a public questionnaire — resulted in 20 proposals that have been or are in

the process of being implemented.

Keith McIntyre, U of G's director of Security Services, says that implementing METRAC's proposals will bolster the ongoing efforts of his department and Physical Resources to create a safe community. He acknowledges, however, that they are just a piece of the puzzle and that assistance is always needed from the community to "help us help you."

Although METRAC was helpful in identifying some new safety concerns on campus, "it's not a panacea for solving all our problems," says McIntyre. "The community can play a very active role in safeguarding the area and each other, and we urge anyone with concerns to contact Security Services. Together we can address issues of safety as they arise. Most important, I urge individuals to respect and act on their

instincts if a situation doesn't feel right."

Here are the METRAC recommendations and the ways they have/are being implemented:

1. The University should develop a statement of purpose and intent describing its commitment to addressing violence and safety on campus. U of G has established a sexual and gender harassment policy, an interim human rights policy, student rights and responsibilities and campus police instructions for dealing with incidents of violence against students.

2. Form a multi-constituency, senior-level personal-safety team responsible for co-ordinating personal-safety initiatives on campus. A Personal-Security Advisory Committee was formed in summer 1994 and continues to work on issues raised by staff, faculty and students.

3. Launch a computerized card access system. This is still under investigation, but recent financial cutbacks make it likely that implementation could only occur in the late 1990s.

4 & 5. Improve maps and provide more emergency signage across campus. Physical Resources is still working on this project, but expects to complete it by September 1996.

6 & 7. Get window coverings for laboratories, studios and classrooms that are "fish bowls" and put locks on the windows that permit their opening to no more than six inches. Coverings have been installed where concerns were identified, and there have been no complaints of this nature since the report was made. Signage has been installed where identified to indicate entrapment and other isolated areas.

8. Put emergency communication devices in isolated areas. Thirty emergency communication phones are being installed in 10 buildings across campus and in three outdoor locations and will be operational by the end of May. In 1996/97, an additional 30 indoor phones will be installed.

9. Create an additional entrance/exit for classrooms holding more than 60 students and for lab facilities according to risk to personal safety. All classrooms were investigated, and all had more than one exit.

10. Post clear signs on outside or entranceway to outdoor laneways or corridors that lead nowhere, indicating that there is no exit. Physical Resources has posted signs in all identified locations.

11. Trim shrubs and trees to improve sight lines and lighting effectiveness. This has been completed by Physical Resources and is ongoing.

12 & 13. Develop a system and comprehensive report form for recording incidents. This procedure is now clearly established in the sexual and gender harassment policy and in reports completed by Security Services.

14. Expand the Safe Walk service. This has been done, and Safe Walk is being well publicized.

15. A regular safety column should be established in *At Guelph*, and other campus pub-

lications should include regular features on personal safety. An *At Guelph* column has appeared sporadically subject to space availability, but is being supplemented with regular lectures, seminars and programs that the community liaison officer and other campus officers carry out in residences and other campus locations.

16 & 17. Offer women's safety courses to first-year students and staff as part of their orientation and offer women's self-defence courses. These courses are ongoing and are carried out by Security Services, the Women's Resource Centre, Human Resources and other campus groups.

18. U of G should undertake a massive education campaign about alcohol use and its connection to violence. This issue is continually being addressed by Student Health Services, the Counselling and Student Resource Centre, associate vice-president (student affairs) Brian Sullivan and various committees.

19. Develop a "victim-centred" system of investigation of violent incidents. This recommendation has been implemented and is incorporated into the procedures of the Counselling Unit, Student Health Services and Campus Police and through the sexual and gender harassment policy.

20. Recommend that the above staff receive appropriate training, such as understanding the definition of violence, how it can develop and its effects. This has been implemented, and training continues to be ongoing.

In the event of a crime, the needs and wishes of the injured party — not necessarily proceeding with criminal charges — are of paramount importance to Campus Police, says community liaison officer Robin Begin. She assures members of the community that if they choose to approach her, their physical, emotional and psychological well-being will be her priority.

"I will outline the support networks and legal options available, but ultimately, the decision will rest with the individual," she says. "It is part of the re-empowering process that must take place." □

Breaking water mains keep pressure on Physical Resources

by Kerith Waddington
University Communications

This year, the pressure's on and water mains across campus are breaking in record numbers — three times the national average.

A recent Canadian survey of water-main-pipe breakage based on age and material indicates that U of G's 10-mile-long cast-iron system should have three or four breaks a year — not the 12 that have occurred on campus since November.

In most cases, heavy objects left in the backfill when the pipes were laid across campus about 40 years ago have been identified as the culprits, says Martin Hodgson, manager of the mechanical section of Engineering and Construction in Physical Resources. Bricks, boulders, pieces of wood and piles of concrete are just some of the objects that have been found pressed against the pipes where cracks have occurred.

The problem is surfacing now because it has taken time for materials to shift and for pressure on the pipes to build to the extent that a crack forms, says Hodgson. And it's a problem that's not likely to go

away anytime soon.

"We can't do anything other than wait for signs of a problem, then repair it when it occurs," he says. "The pipes are getting old, and there was enough garbage left in the backfill to cause problems over time, which is what we're seeing now."

Springtime is frequently a time when pipes break because the pressure put on them slowly as frost enters the ground is released quickly with the spring thaw — a condition Hodgson fears may aggravate any pressure points that currently exist.

The cost of fixing each break with a stainless steel band lined with rubber is about \$4,000, so the growing problem is also a costly one.

Hodgson says that although plastic pipes are now replacing those made of cast iron, conscientious installation and backfilling make the biggest difference in minimizing water-main breaks.

He reassures the University community that because the system is a pressurized one, movement is always outwards when a break occurs, so the quality of drinking water on campus has never been an issue. □

IPO proceeds to develop technologies

Continued from page 1

GUARD's current portfolio includes these technologies:

High-immune-response genetics

Improvements in animal production have traditionally relied on breeding for production traits and health-care systems that make extensive use of elaborate management methods and costly health-care agents such as antibiotics. Progress is slow and incremental; despite advances, health problems in high-production operations persist. High-immune-response genetics is a new animal-breeding method with the potential to increase production performance, reduce health-care costs and improve product acceptability. The GUARD management team believes this is a platform or core technology for a genetics company intended to supply the livestock industry with advanced genetic technologies and services.

Veterinary vaccines

GUARD believes that advances in technology and consolidation among large veterinary vaccine companies have created opportunities for companies focusing on new technologies. GUARD is negotiating a business alliance with Advet through which it would access a unique delivery technology. The technology would particularly make possible the effective vaccination of very young animals.

Chemical design and discovery technology

Pharmaceutical companies focus on developing novel therapeutics that offer advances over existing medication. These are normally protected by patent and sold by prescription, as companies try to recoup the money they've devoted to development. At Guelph, a unique and powerful molecular modelling technology has been developed that represents a fundamentally new ap-

proach to chemical design and discovery, one of which may be many times more efficient than any method currently available. This is seen as an ideal platform technology for a successful chemical discovery company. The method provides the opportunity to discover valuable chemicals and pharmaceuticals that may be marketed through existing companies.

Proceeds from the IPO will be devoted to further developing these technologies into new businesses, as well as assessing, validating and developing other technologies for conversion into business entities.

CIBC Wood Gundy Securities Inc. has been engaged as the agent for this initial public offering, which is being made in Ontario and Alberta. Anyone wishing to obtain more information on the public offering can call a local CIBC Woody Gundy office (Kitchener: 1-800-265-2433 or 519-570-5620). □

First Clarke scholarship to be presented this fall

Continued from page 1

arship applicants that allots points for each of eight factors to be considered by the awards committee. Although the biggest emphasis is on academic excellence, financial need can also be a major consideration, he says. It is one of the few scholarships at Guelph to consider a student's financial need.

Clarke has high praise for University Affairs and Development staff, who co-operated with him in developing this new approach.

An engineer who was an executive with Ford Motor Company in Windsor from 1953 until his retirement in 1982, Clarke taught physics at U of G during the late 1940s and early 1950s. Aileen Clarke, who grew up in the Guelph area, is a daughter of the late Robert Moffatt, a former head of the Department of Physics.

The first P.A.J. Clarke Family Award will be presented this fall. Applications must be submitted to the Office of Student Finance and Awards by April 1. □

One-stop shopping satisfies conference organizers

U of G's conference operation now offers one-stop shopping to help Guelph faculty and staff and outside groups mount successful events on campus.

Under the umbrella of the Office of Open Learning, the conference planning unit works with Hospitality Services and Student Housing Services to provide clients with an all-inclusive package of facilities and services. This affordable service is a cost-recovery operation that offers access to professional, creative service, while providing much-needed financial support for the University.

Special arrangements with the Department of Athletics, Teaching Support Services and Parking allow the unit to offer such benefits as technical support, reduced daily parking rates and free access to some recreational facilities and fitness classes. During the prime conference season from May to August, conference manager

Cyndy Forsyth works with her summer staff to provide 24-hour on-call service for conference goers.

If you're considering holding an event on campus, Forsyth will help you identify and meet your needs within your budget. You will be offered a tour of the facilities to learn just what is available. She and her staff take on the time-consuming chores of booking, checking and confirming facilities, accommodation and hospitality services, leaving you free to get on with other planning. Conferences guarantees first-class service at a reasonable cost.

"Our mandate is to provide trouble-free, cost-effective service for our clients," says Forsyth. "Accountability and attention to detail are the keystones of our operation."

The following are just a few of the services available:

- reduced fees for accredited academic events;
- accommodation (including parking) and choice of meal plans;
- provision of tables, chairs, flip charts and campus signs;
- handling of registration (cash, cheque, money order and credit card in U.S. or Canadian funds);
- recreational and spousal program planning;
- computer interfacing, satellite transmission and reception;
- child-care services;
- use of computer and multimedia labs;
- 58 venues ranging from classrooms to the 600-seat War Memorial Hall and 900-seat Peter Clark Hall; and
- facilities to accommodate up to 2,000 participants.



Call Cyndy Forsyth, right, or Brenda Neil to make arrangements for an event on campus.

It was a royal welcome for 400 young scientists

"This is a wonderful place to bring a bunch of kids from across Canada," says Prof. Jim Stevens, Physics, director of the 1994 Canada-Wide Science Fair.

"We took them to Niagara Falls and a Blue Jays game, where one of the participants threw the first pitch. Roberta Bondar spoke to them and they had the freedom of the city — we negotiated a bus pass with the Guelph Transit Commission."

Site bids for the Canada-Wide Science Fair are made four or five years in advance, "so we had plenty of planning time," says Stevens. "The fair was a terrific success. We had very positive feedback from the delegates — adults and kids. One of the things they raved about was the food in Creelman."

Conference: Canada-Wide Science Fair, May 1994

Conference director: Prof. Jim Stevens, Physics

Who came: 400 students aged 12 to 20, 200 supporters, 250 judges, thousands of visitors

Duration: One week

Heart of the event: Gymnasium, where young participants set up science projects for judging and open house

Facilities used: Residences, where students and many teachers and adult delegates chose the economical double-accommodation option; twin-pad arena for Ontario Science Centre exhibit; Creelman Hall for main meals, although some events took place off campus; and athletics facilities, including circuit room, pool, west gym and Arboretum.



Prof. Jim Stevens



A co-operative approach by top management in Open Learning, Hospitality Services and Student Housing Services means one-stop shopping for conference organizers. From left are Dave Boeckner, Hospitality Services; Al McInnis, Student Housing Services; and Virginia Gray, Open Learning. Missing from photo is Garry Round, Hospitality Services.

Genetic scientists gather

"People were very happy with our conference. There were lots of compliments and few problems. The weather was good, the food was good. It was a serious scientific conference, but it was fun as well. People really appreciated that. They also liked the campus, particularly the convenience of the University Centre, where participants from sessions in the engineering, physical sciences and Axelrod buildings gathered for long coffee breaks."

Prof. Charles Smith
Animal and Poultry Science

Conference: 5th World Congress on Genetics Applied to Livestock Production, August 1994

Organizers: Prof. Ted Burnside, then director of the Centre for the Genetic Improvement of Livestock; Prof. Charles Smith, Animal and Poultry Science; and Carol Lohuis of Open Learning, associate co-ordinator

Who came: 1,200 delegates and about 350 others from every continent but Antarctica, including 48 promising young scientists from developing and east bloc countries supported by the Canadian International Development Agency, industry and government funding

Duration: Six days

Heart of the event: Concurrent scientific meetings ran in six large lecture halls; poster sessions were held in the University Centre

Challenges overcome: Almost 100 people arrived a day early without notice. "I had two sleeping in my basement," says Smith. "The Conferences people were wonderful. We had to scramble for hotel rooms in Kitchener and Guelph, but it was all done with good spirits and left people feeling very positive about the University."

Special events: Opening wine and cheese in Creelman; evening poster sessions in Peter Clark Hall sponsored by local breweries; industry-sponsored barbecue at the Ontario Agricultural Museum in Milton; Blue Jays game; tours of local farms led by graduate students; spousal and children's programs, including trips to St. Jacob's, Niagara Falls and Toronto for shopping and a harbor boat tour

Accommodation: Most stayed in residence, some in motels.



Prof. Charles Smith

Guelph home base a hit

When Guelph doctors Marcel Doré and André Spekkens brought the Ontario doctors' annual baseball tournament to campus, they thought it would be for one year.

This June will be their fourth Guelph event.

"The participants find the situation quite ideal in terms of facilities and services," says Spekkens. "Cyndy Forsyth in Conferences and Craig Moore in Hospitality Services have been extremely helpful. Now, arranging the conference every year is as easy as falling off a log."

Event: Ontario Doctors' Slo-pitch Tournament

Organizers: Dr. Marcel Doré and Dr. André Spekkens

Who comes: 200 doctors from across the province and a few spouses

Duration: Two days

Heart of the event: U of G baseball diamonds

Format: 18-team tournament with pub night in the Gryphs Lounge the first night; food service in tent, including formal closing banquet second day

Accommodation: Motels.

Full-service approach is a winner

"We had a full-service package with Conferences," says Prof. John Phillips, Molecular Biology and Genetics, whose genetics conference "ran like clockwork." Conferences looked after all the registrations, cancellations and reimbursements and kept track of the money in various accounts, says Phillips. "I wouldn't do it any other way."

Many people commented on the way things ran so smoothly, he says. "They were impressed by the facilities, the food services and the reasonable cost. These are scientists who go to a lot of conferences, and things don't always happen that way. The banquet in Branion Plaza and the ample continental breakfasts in residence were particularly popular. The audio-visual and computer arrangements went without a glitch, and we even made a little money."

Conference: Genetics Society of Canada, June 1995

Chair: Prof. John Phillips, Molecular Biology and Genetics

Duration: Five days

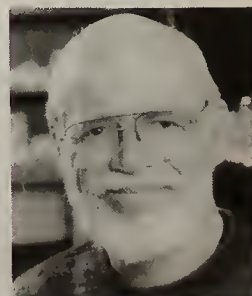
Who came: 150 scientists

Special events: Opening-night poster session and licensed reception in UC courtyard

Challenges overcome: An outside firm delivered the wrong poster boards the morning of opening day. "The Conferences people went to bat for us and got it all sorted out in time," says Phillips.

Facilities: An Internet hookup in the Thornbrough lecture hall allowed the demonstration of database accessing as applied to genetics and molecular biology. The computer laboratory in the Department of Animal and Poultry Science was used for a hands-on workshop on the same subject. Graduate students were trained by University technical services personnel to run audio-visual equipment for the conference and got free registration in return.

Accommodation: Residences. □



Prof. John Phillips

For more information about bringing a conference, meeting or other event to campus, call conference manager Cyndy Forsyth at 519-824-4120, Ext. 2353, or conference co-ordinator Brenda Neil at Ext. 3358.

Natural hormone melatonin should be available in Canada

by Margaret Boyd
University Communications

There's no good reason why melatonin shouldn't be available in Canada, says Prof. George Bubenik, Zoology, who has been studying the natural hormone for more than 20 years.

Growing interest in melatonin is based on its wide-ranging healing properties. Studies have shown that it is a powerful antioxidant, slows the aging process and can safely be used as a natural sleeping pill. But sales of melatonin and melatonin derivatives are currently forbidden under law in Canada, although the hormone is available in health-food stores in the United States.

Can't be patented

Because melatonin is a natural hormone and can't be patented, drug companies have little interest in pursuing research into its healing properties, says Bubenik, one of a handful of Canadian researchers looking at melatonin. "It is very safe," he says. "It could be sold in a similar way to a vitamin."

Melatonin is a natural relaxant produced primarily in the pineal gland, but also in the retina and digestive tract. As an amino acid derivative, it is related to tryptophan and is a metabolite of serotonin, a powerful neural stimulator. Melatonin acts as a physiological inhibitor of serotonin, which is associated with negative effects on the gastrointestinal tract, the immune system and mental processes.

Bubenik's research, which is

supported by the Ontario Ministry of Agriculture, Food and Rural Affairs, indicates that melatonin has a beneficial effect on intestinal activity and epilepsy. In a study with graduate student Patricia Pentney, melatonin was found to eliminate colitis in mice after seven weeks of daily injections.

Preliminary data from the same study also show that melatonin and its derivatives slowed the growth of human colon cancer cells. Earlier studies confirmed that melatonin has a beneficial effect as an anticonvulsive drug, capable of blocking experimentally induced epilepsy.

"Melatonin relaxes the brain and calms the gastrointestinal system," Bubenik says.

The next step in the research is to determine why melatonin was so effective in treating colitis. "There are several possibilities," he says. "Melatonin boosts the immune system, it increases blood flow and it can stimulate the regeneration of the lining of the intestine."

Recently initiated nutritional studies will look at melatonin in relation to food-intake disorders such as obesity, anorexia and bulimia, as well as the seasonally affective disorder (SAD). For the study, pigs will be fed varying diets, and blood levels in the intestine will be measured to determine the influence of melatonin. Pigs are being used because their diet and intestinal activity is closely related to that of humans.

A preliminary study using pigs, conducted by Bubenik and Prof. Roger Hacker, Animal and Poul-

try Science, found that melatonin levels rise as food is moving from the stomach to the intestine. Another study with Prof. Ron Ball, Animal and Poultry Science, found that in pigs, melatonin added to food reduced the incidence of gastric ulcers by one-third.

Work on this study and earlier ones on melatonin have been conducted in conjunction with the Clarke Institute of Psychiatry in Toronto and the University of Hong Kong.

Powerful detoxificant

Bubenik would like to see more research done in Canada to determine other beneficial uses of melatonin. U.S. studies, for example, have shown melatonin to be a powerful detoxificant of noxious chemicals in the brain and to provide protection against the effects of radiation. In the future, it could be used to treat health disorders ranging from migraines to infant colic, he says.

As a three-billion-year-old molecule, melatonin is the oldest known hormone and is present in plant and animal species. Because blood levels of melatonin rise rapidly at the onset of darkness, it became a convenient signal for the recognition of time and seasonal change during evolution.

In humans, who are mostly diurnal, melatonin causes lower body temperature, drowsiness and relaxation of smooth muscles. Melatonin production peaks at age one, drops sharply until puberty, when it stabilizes, then decreases with age. □



History in the making. Five former heads of the Department of Land Resource Science turned out to help celebrate the department's 50th anniversary earlier this month. Striking timely poses (past to present, left to right) are retired professor Rick Richards, former U of G president Burt Matthews, Prof. Murray Miller, Prof. David Elrick, retired professor Ken King and current chair, Prof. Gary Kachanoski.

Photo - Kerith Waddington, University Communications

Plant preservation a pressing issue at campus herbarium

by Kerith Waddington
University Communications

U of G's 115-year-old herbarium is planted in history.

Founded in 1880 as part of the natural history museum at the Ontario Agricultural College, the collection — which holds about 88,000 samples of pressed plants, trees, shrubs, sedges and ferns from around the world — is expanding by about 2,000 samples each year. Located in the basement of the Botany Building, the collection is used for reference and identification purposes by faculty, students, area farmers, the OPP and gardeners alike. It is one of 110 Canadian herbariums and 2,639 internationally.

It is also an invaluable resource, says assistant curator Carole Ann Lacroix.

"The gathering, pressing and storage of plant samples from a particular area over time form a running record of what has been in place, what is there now and how changes in the environment may be affecting the plants' distribution," she says. "The worldwide network of loans and exchanges between herbariums also enhances their usefulness and ability to educate."

Originally collected for the study of medicinal uses and for esthetics such as coffee-table books, collections are now stored in loose-leaf form on closed cabi-

net shelves in evolutionary order for easy access and reference purposes. Mounted on 100-per-cent rag-content paper after pressing and drying, specimens can last indefinitely, says Lacroix. For each specimen, there is a listing of the plant's scientific name, the location, date and conditions under which it was found, and the name of the collector.

The herbarium is funded in part by the Plant Biology Council (made up of representatives from the departments of Horticultural Science, Crop Science, Environmental Biology and Botany). It also receives proceeds from the Herbarium Trust fund set up by Lacroix and from the customized plant-identification workshops she gives throughout the year to interested groups. This money is used to hire students who help in the herbarium's upkeep.

"The trust fund is an investment in the future of not only the herbarium, but also the taxonomy and botany students I can hire as a result," she says. "Young people are getting practical experience that will help prepare them for future positions, and the collection is being cared for, used and added to in such a way that it will be a valuable resource for the University and greater Guelph community for years to come."

Appointments to use the herbarium can be made by contacting Lacroix at Ext. 8581. □

Study to help predict, prevent exposure from farm chemicals

by Owen Roberts
Office of Research

About 300 Ontario farm families will soon be participating in a landmark pilot study to help determine, predict and prevent exposure from agricultural chemicals.

The \$600,000 pesticide exposure assessment pilot study, led by Health Canada epidemiologist Tye Arbuckle, will be conducted by environmental biology professor Len Ritter, executive director of the Canadian Network of Toxicology Centres (CNTC). He will carry out the study on behalf of the Bureau of Reproductive and Child Health, Laboratory Centre for Disease Control, Health Canada.

The study will focus on variables in farmers' fields and homes that most profoundly affect exposure. These include such factors as contamination of drinking water, drift of farm-chemical sprays and the use of personal protection devices such as impervious coveralls and rubber gloves and boots.

In each farm family, body-fluid samples will be collected from the farm operator, the operator's spouse and one of their children. Ritter says this will provide an unprecedented detailed picture of exposure and suggest ways to prevent it.

"The results of this study will give us a new level of confidence to explain the relationship between farm practices and chemical exposure," he says. "Later, when national studies of disease outcomes are conducted, it will enable scientists to ask farmers certain questions and predict exposure based on the answers, instead of having to do a mass biological analysis."

Previous studies have shown that in some cases, farm families are more prone to maladies such as certain forms of cancer and respiratory and reproduc-

tive problems (primarily stillbirths) than other segments of the population are. The relationship between these problems and chemical exposure is suspected, but has never been conclusive because studies that definitively identified exposure levels were lacking.

"It's easy to study a disease's outcome, but it doesn't tell you what may have caused the disease," says Ritter. "The more accurate information you have about what causes it, the more you can help it from occurring. We want to be able to better establish exposure levels, so that studies in the future that look at reproduction will be better able to determine if exposure is causing the problem."

Collaborators on this study will be other environmental biology faculty and participants in the CNTC, the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and the U.S. National Institute of Occupational Safety and Health.

As many as 20 part-time positions will be created to help carry out the study. Analysis techniques will include extensive use of video imaging, a new technique in which U of G and OMAFRA are leaders. It involves adding a fluorescent dye to the farm chemical prior to use, then taking post-exposure video images of farmers with a camera that can detect fluorescence. The resulting images clearly show the degree of exposure.

"Earlier research has suggested that the use of protective clothing can significantly reduce risk by reducing exposure," says Ritter. "This study will help more closely define that relationship."

But even protective clothing is no panacea, he says. "Farm chemicals must always be treated with caution and respect. If you approach them with that in mind, you'll deal with them accordingly." □

Community

Candidates for chair sought

The Selection Committee for the chair of the Department of Sociology and Anthropology invites nominations and expressions of interest with respect to the next chair of the department. The position is open to all U of G faculty.

Nominations must be submitted by noon Feb. 29 to committee chair Prof. David Knight, dean of the College of Social Science. All candidates must submit a complete curriculum vitae and present in writing their vision for the department by noon March 11.

In addition to Knight, the committee consists of Prof. Alastair Summerlee, dean of graduate studies; Prof. Christine Bold, English; Prof. Mary Ann Evans and Karen Carter, Psychology; and Profs. Ken Menzies, Marta Rohatynskyj and Victor Ujimoto, Sociology and Anthropology. □

Caplan to speak

The Women's Resource Centre will mark International Women's Week with a talk by Paula Caplan, a professor of psychology, psychiatry and women's studies at the University of Toronto, March 7 in Room 105 of the MacNaughton Building. Caplan will explore subtle and overt forms of exploitation by those in positions of power in fiduciary relationships at 5:15 p.m., with a panel discussion to follow at 7:30 p.m. A pioneer in the development of feminist analysis of women and education, Caplan is author of *They Say You're Crazy, Don't Blame Mother and Lifting a Ton of Feathers*.

Animals in research

The Animal Liberation Collective, a student group affiliated with the Central Student Association, will present a series of discussions/workshops on animals in research and education at U of G March 1 to 3. A weekend pass is \$8 for students and the unwaged, \$20 for the waged. A day pass on Saturday or Sunday is \$5 and \$12. For conference bookings or more information, call Janet at 823-9581 or Richard at 763-2519.

AGO bus tour

The Macdonald Stewart Art Centre is offering a bus tour to see the "Group of Seven: Art For a Nation" exhibition at the Art Gallery of Ontario March 27 and April 13. Cost of the day-long excursion is

\$33 for MSAC members, \$35 for non-members. For more information, call the Gallery Shop at 837-3808.

It's a classic!

The Classics Club will hold a symposium on "Prometheus Bound and Determined" March 2 from 8:45 a.m. to 4:15 p.m. in Room 107 of the MacKinnon Building. The symposium will feature speakers from U of G, the University of Western Ontario and the University of Toronto. Cost is \$6, including lunch. For more information or to register, contact the Classics Club in the

Department of Languages and Literatures or call 821-0007.

Parents sought for study

Dolores McKee, an undergraduate student in child studies writing her honors thesis, wishes to talk with parents who have an infant in day care. She can be reached by e-mail at dmckee@uoguelph.ca or through her adviser, Prof. Barb Stuart, Family Studies, at Ext. 3423.

Women's Day breakfast

The Zonta Club of Guelph is hosting an International Women's Day breakfast March 8 at 7:30

a.m. at the Cutten Club. Featured speaker is Judy Rebeck, past president of the National Action Committee on the Status of Women. Tickets are \$20 and are available at Ki Design on Quebec Street or by calling 763-2060.

Take a break

Rick and Judy present song entertainment for children and adults at the end of spring break March 16 at 2 p.m. at the Arkell Schoolhouse Gallery, 843 Watson Rd. S., Arkell. Cost is \$5. To reserve tickets, call Geraldine Ysselstein at 763-7528. □

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CLASSIFIEDS

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Four-bedroom home in old University area, four baths, two fireplaces, fenced yard, high-efficiency gas, 767-1519.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre or fax to 824-7962. For more information, call Ext. 6581.

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CALENDAR

THURSDAY, Feb. 29

Pathology Seminar - Graduate student Rocio Crespo discusses "Investigation of the Air Sacs of Turkeys and Their Mechanisms of Defence" at 11:10 a.m. in Pathology 2152.

Fine Art Seminar - Performance artist Tanya Mars discusses her work at noon in Zavitz 320.

Reading - The Department of English presents Donna McFarlane reading from her first book, *Division of Surgery*, at noon in MacKinnon 224.

Concert - Cellist Paul Pulford and pianist Boyd Macdonald perform at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - The Counselling Unit hosts a session on "Understanding Your Moods" at 5 p.m. in UC 334.

Film - *Spinal Tap* begins at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, March 1

Human Biology and Nutritional Sciences Seminar - Lorraine Deforest considers "The Effect of Dietary Zinc Repletion on Gastrointestinal Mucosal Defence in the Rat" at 11:10 a.m. in Animal Science/Nutrition 141.

World Day of Prayer - Nora and Prof. Neal Stoskopf, Crop Science, speak on "Friends of the Orphans" at noon in UC 442.

Evolution and Systematics Seminar - Douglas Currie of the Royal Ontario Museum discusses "Conservation Issues and Biodiversity in Vietnam" at 3:10 p.m. in Axelrod 259.

Economics Seminar - Alan Harrison of McMaster University considers "The Determinants of Contract Length" at 3:30 p.m. in MacKinnon 235.

SATURDAY, March 2

Classics Club Symposium - "Prometheus Bound and Determined" is the topic beginning at 8:45 a.m. in MacKinnon 107. Cost is \$6. Register at 821-0007.

MONDAY, March 4

Concert - The departments of Music and French Studies present Boubacar Diabate performing West African music on the kora at 12:10 p.m. in MacKinnon 107.

Animal Welfare Lecture - The Colonel K. L. Campbell Centre for the Study of Animal Welfare presents "Yes, Millimetres Do Matter: Behavior-Based Design of Animal Equipments" with Stanley Curtis at 7:30 p.m. in OVC 1714.

TUESDAY, March 5

Mathematics and Statistics Seminar - David Smith of Duke University discusses "Calculus: Concepts, Computation, Composition, Co-operation" at 10 a.m. in MacNaughton 122.

Animal and Poultry Science Seminar - "Changes for Competitiveness" is the topic of Paul Larimer, general manager of United-Western Ontario Breeders, at 11:10 a.m. in Animal Science/Nutrition 141.

Chemistry and Biochemistry Seminar - "Therapeutic Potential for Matrix Metallo-Proteinase Inhibitors in the Treatment of Arthritis-Enzyme Structure and Inhibitor Design" is the focus of Carl Decicco of Dupont Merck at 2:10 p.m. in MacNaughton 222.

Physics Colloquium - Prof. David Elrick, Land Resource Science, discusses "From Nuclear Physics to Soil Physics: The Hanford Experiment" at 4 p.m. in MacNaughton 113.

WEDNESDAY, March 6

Third Age Learning - The lecture series for retired people continues with Prof. K.C. Tan, Geography, explaining "Rural-Urban Migration in China" at 10 a.m. and Prof. Ann Wilson, Drama, exploring "*Sweet Bird of Youth* by Tennessee Williams" at 1:30 p.m. Lectures are at the Arboretum Centre.

Scottish Studies Seminar - Luca Codignola of Genoa discusses "The Creation of a North Atlantic Network, 1350-1700: Roman Catholicism as an Overall Context" at noon in MacKinnon 132.

Biochemistry Seminar - Jorg Kunte, Microbiology, considers "Compatible Solute Synthesis and Accumulation in *Halophilic eubacteria*: Genetic Manipulation and Biotechnical Exploitation" at 12:10 p.m. in MacNaughton 222.

Canadian Studies Lecture - "Canadian Political Editorial Cartoon Analysis" is the subject of Roy Morris of York University at 3:30 p.m. in MacKinnon 226. Cost is \$15. Register at Ext. 3064.

Plant Biology Seminar - Kathy Dobinson of Agriculture and Agri-Food Canada considers "Field and Molecular Studies of *Verticillium dahliae* Race 2" at 4 p.m. in Axelrod 117.

THURSDAY, March 7

Pathology Seminar - "Does Vaccination Cause Glomerular Disease?" is the topic of graduate student Shelley Newman at 11:10 a.m. in Pathology 2152.

Concert - Valerie Candelaria performs on piano at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - Teaching Support Services provides an introduction to Multimedia ToolBook from 1 to 4 p.m. in McLaughlin 103. Some knowledge of Windows is required. Register at Ext. 2427 or hmartin@tss.uoguelph.ca.

Workshop - The Counselling Unit hosts a session on "Creative Journal Writing" at 5 p.m. in UC 334.

Lecture - Paula Caplan of the University of Toronto discusses exploitation by those in positions of power at 5:15 p.m. in MacNaughton 105. A panel discussion will follow at 7:30 p.m.

Film - *The Giant Rock 'n' Roll Swindle* runs at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, March 8

Human Biology and Nutritional Sciences Seminar - Graduate student Sylvia Gillis

discusses "Early Markers of Liver Fibrosis During Long-Term Ethanol Feeding in Rats" at 11:10 a.m. in Animal Science/Nutrition 141.

Evolution and Systematics Seminar - Chris Eckhart of Queen's University considers "Mating System Evolution in the Clonal Shrub, *Decodon*" at 3:10 p.m. in Axelrod 259.

Economics Seminar - "Is It Better to Give Than Receive? Voluntary Transfers in a Regional Model" is the focus of Tracy Snoddon of Wilfrid Laurier University at 3:30 p.m. in MacKinnon 235.

MONDAY, March 11

Food Science Seminar - PhD candidate Samson Agboola discusses "Studies on the Stability of Oil in Water Emulsions Formed Using Milk Proteins" at 10 a.m. in Animal Science/Nutrition 141.

Lecture - "The Philosophy and Music of Witold Lutoslawski" is the topic of Department of Music graduate Greg Dorter at 12:10 p.m. in MacKinnon 107.

TUESDAY, March 12

Animal and Poultry Science Seminar - "Ionophores to Prevent Subclinical Ketosis in Dairy Cows" is the topic of M.Sc. student Barb Green at 11:10 a.m. in Animal Science/Nutrition 141.

Food Science Seminar - Srinivasan Damodaran of the University of Wisconsin considers "Synthesis and Properties of Protein-based Biodegradable Hydrogel" at noon in Axelrod 117.

Chemistry and Biochemistry Seminar - Sandro Gambarotta of the University of Ottawa talks about "Dinitrogen Activation: 30 Years from Discovery — Prospective Results and Challenges" at 2:10 p.m. in MacNaughton 222.

Physics Colloquium - "Is Our Galaxy Older Than the Universe? What's the Problem?" is the topic of Gretcheo Harris of the University of Waterloo at 4 p.m. in MacNaughton 113.

WEDNESDAY, March 13

Third Age Learning - The lecture series for retired people continues with Prof. K.C. Tan, Geography, discussing "China, Taiwan and Hong Kong" at 10 a.m. and retired English professor John Bligh exploring "*Amadeus* by Peter Shaffer" at 1:30 p.m. Lectures are at the Arboretum Centre.

WORSHIP

A World Day of Prayer for Haiti runs March 1 at noon in UC 442. Womenspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. ☐



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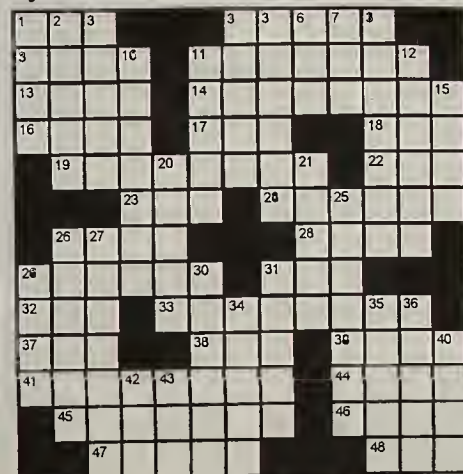
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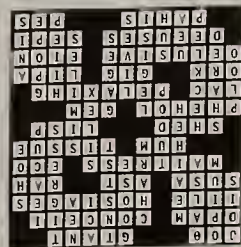


ACROSS

1. Patient man
4. Gigantic being
9. Moonfish
11. Personal vanity
13. Mah-jong piece
14. Kidnapping victims
16. Elam's capital
17. "___ Lay Dying"
18. College cheer
19. It's used on a bed
22. Habitat combining form
23. Make a buzzing sound
24. Disposable handkerchief
26. Storage building
28. Speak imperfectly
29. Carbolic acid
31. Precious stone
32. Resinous secretion
33. Taking a break
37. Mork's planet
38. One-horse camlage
39. Turkish pound
41. Misleading
44. Town near the River Thames
45. Renders a bomb

DOWN

3. powerless
46. Ninth mo.
47. Flies off the handle
48. Thing, in Latin
5. glass
25. Metaphors
26. Divvied up with
27. Pest to a stand-up comedian
29. Trudge
30. Law specialist
31. Pledges
34. Resides at
35. Saltpeter
36. Feel blindly
40. Social insects
42. Bashkir's capital
43. Day star
1. Scribbles down
2. Addictive drug
3. Raft wood
4. Tailor's iron
5. Demand strongly
6. Perform
7. Educational group
8. Female tiger
10. Pagan
11. Pleasing feature
12. China piece
15. Oxford
20. British royal family
21. Heat-resistant



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Recycling tips for wet/dry program

U of G is working towards full-scale implementation of the City of Guelph's wet/dry waste-management program on campus by April 1. If you're not familiar with the wet/dry recycling program, here are some helpful sorting hints:

Wet waste (for composting)

- all food scraps (including meats and fish)
- coffee grounds and filters
- paper towels, serviettes
- tissue paper and sanitary products
- floor sweepings
- cigarette butts and ashes
- plants.

Dry waste (including recyclables)

- newsprint, magazines, box-board
- empty package containers (keep loose, not crumpled or packed together), plastic bags
- styrofoam, plastic packaging
- bottles and jars
- aluminum foil and containers, cans
- cutlery, clothing, dishes, office supplies, drink boxes and cartons, small equipment
- fine paper, including writing/note paper, computer paper, file folders, all envelopes and NCR paper



- corrugated cardboard, including clean, flattened, corrugated cardboard boxes; brown (kraft) paper bags; and clean, empty pizza boxes.

Members of the campus community with any questions about the wet/dry program can call waste-management co-ordinator Alex Hall at Ext. 2054 (e-mail recycle@pr.uoguelph.ca). □

Scientists should get political about research funding, nutritionist says

by Helen Fallding
Office of Research

Most of the people who determine science policy in Canada have never been in a laboratory... and it's time that changed, says a Guelph alumnus.

In a recent talk at OVC, Dennis Fitzpatrick, president of the Canadian Federation of Biological Societies (CFBS), encouraged scientists to invite their local member of parliament to campus to see science up close. (In fact, Guelph MPP Brenda Elliott is in the midst of a series of campus tours to learn more about U of G research.)

Fitzpatrick, who holds a master's in nutrition from Guelph, heads the department of foods and nutritional sciences at the University of Manitoba. He has spent the past six months in Ottawa meeting with politicians and administrators, as well as with the Natural Sciences and Engineering Research Council (NSERC) and the Medical Research Council (MRC). Now he's on a cross-Canada tour trying to raise universities' awareness of research funding issues.

Fitzpatrick invited his own MP to campus shortly after the politician was elected.

"He saw that almost every piece of our equipment had the name NSERC or MRC on it, and he saw graduate students participate in teaching classes, and he got a real appreciation of what goes on in the university — far more than he ever got when he went to convocation and sat on the podium. Now he's an ally."

Government needs to consider research an investment, rather than an expense, says Fitzpatrick. In his lobbying efforts, he has encountered a number of persistent myths:

- that universities have internal money to fund research;
- that professors work a small number of hours per week and take the summer off;
- that everyone who applies to the research funding councils gets a grant (in fact, more than 50 per cent of new applicants are rejected); and
- that research funding doesn't create jobs.

In a deficit-cutting era, Fitzpatrick believes researchers must become more actively involved in educating both the public and decision makers. He says scientists have traditionally been "wimps" when it comes to lobbying.

"We continue to ask for more money for research, but don't get fully involved in the process," he says. "The public is looking to us for more than just good science." Here are some of Fitzpatrick's suggestions for change.

- Make outreach a core activity in every department, rather than something that's cut when funds are tight.
- Bring the public on campus.
- Listen and be responsive to those who employ graduates. For example, develop non-the-sis master's programs that include an industrial internship and a business management certificate.
- Write to the ministers of finance, industry and science, asking them to pay attention to their own departments' reports on the economic value of research.
- Bring together representatives from all the sciences to form a common-front advisory and lobby group.
- Reward professors who are effective at "selling" the mission of the University.

Fitzpatrick says it's time for universities to answer tough questions such as: "Do we have too many graduate programs?" and "Why haven't we produced more innovations that became commercial ventures?"

If universities don't answer those questions now, the federal Department of Finance is more than willing to answer them for universities, he said.

The CFBS represents about 3,000 biological and biomedical scientists who are members of 12 constituent societies. The CFBS and the Office of Research sponsored Fitzpatrick's talk. □

Business network to hold first meeting

A new private-sector association designed to bring together environmental business expertise in the Guelph region is holding its inaugural meeting at the Arboretum March 1.

The Environmental Business Network (EBN) is intended to identify opportunities for environmental-sector business development in the Guelph, Kitchener, Waterloo and Cambridge area.

Membership in the network is available to companies and individuals dedicated to achieving a healthy environment. Commer-

cial enterprises that provide environmental products or services are welcome to join. Individual memberships cost \$50; corporate memberships are \$300.

Meetings, seminars and workshops are being planned on business opportunities, new technologies, joint ventures, competitiveness in the marketplace, funding and policy initiatives. A membership directory will be available in the coming months.

Breakfast meetings will be held the first Friday of each month (excluding July, August and Decem-

ber) at 7:30 a.m. at the Arboretum. Guest speaker March 1 is Guelph MPP and Environment and Energy Minister Brenda Elliott, who will discuss the direction and growth of the environmental business community.

For more information about the EBN, call network secretary Leah Bozic at Guelph Business Development, 837-5600, or U of G's representative on the EBN steering committee, Owen Roberts of the Office of Research, Ext. 8278.

Memberships will be available at the door. □

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AT A GLANCE

Campus Days are here again! All U of G applicants and their families are invited to Guelph March 13 and 14 for Campus Days, an annual March break program run by the Liaison Office to connect secondary school students with students, faculty and staff across campus. The day-long program includes panel sessions, displays, program counselling and campus tours. Dozens of members of the University community are involved in the program, helping the Liaison Office provide a friendly, informative welcome to potential students. For more information, call Ext. 6302.

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Pulling some strings. The inaugural Summer Music Institute for Strings is tuning up... page 3

They're the tops! Sigma Xi honors five for excellence in teaching and research... page 3

New on the shelf. Campus authors explore the history of the elderly, agricultural rationality and ethics, political ideologies and the life of former University of Toronto president Henry John Cody... page 5

In support of safety. Fifteen campus initiatives that promote safety for women have received funding... page 8

Thought for the week

A committee is a group that keeps minutes and loses hours.

Milton Berle



Sporting a new look. The circuit room in the Athletics Centre has a new lease on life thanks to fine art students John Harrison and Megan Gare, who spent more than 200 hours painting a fitness-inspiring mural on the walls of the room.
Photo - Joanna Von Felkerzam, University Communications

Join us for 72nd College Royal open house

U of G students will hold their 72nd annual College Royal open house March 16 and 17. The biggest open house of its kind in Ontario, College Royal involves several hundred students and welcomes about 20,000 visitors. The campus will be open Saturday from 9 a.m. to 5 p.m. and Sunday from 10 a.m. to 5 p.m.

Included with this week's *At Guelph* is a special supplement listing all the College Royal events.

This year's theme is "Evolution of Excellence," which is representative of the institution's goals in many realms, including teaching, research and lifelong learning.

Traditional events include a livestock show, live demonstrations of animal surgery, a chemistry magic show, a petting zoo, cat and dog shows, a flower-arranging competition, a logging contest and Maple Syrup Days. Children are the focus at FACS, which will offer face painting, arts and crafts, games, story times, clowns and a time machine. The Talentfest Open Stage will run Saturday and Sunday from 10 a.m. to 4 p.m. in the University Centre courtyard.

See *FACULTY* on page 8

SCUP backs proposed options to address shortfall

The Senate Committee on University Planning (SCUP) voiced support at Senate Feb. 27 for the mix of options proposed to address the \$19.6-million shortfall to Guelph's 1996/97 operating budget caused largely by the reduced transfer grant from the Ministry of Education and Training (MET).

Some difficult decisions had to be made, SCUP chair Prof. John Barta, Pathology, told senators. "There is no good news in this budget, and the solutions are not pleasant. These are pragmatic and necessary short-term responses to the federal and provincial governments' short-sighted cuts to postsecondary education."

SCUP noted that layoffs were unavoidable, but have been kept to a minimum, mainly because of the special early retirement program (SERP). Barta said SCUP joins the administration in expressing regret at the significant pain these layoffs will cause and recognizes that those who remain will have more work to do.

Prof. Ken Jeffrey, Physics, said he was pleased with the proposed solutions and thanked the administration for addressing the fiscal problem in a humane way, keeping layoffs to a minimum.

SCUP supported the proposal to increase first-year student intake by 350 to 400 beginning in fall 1996.

Prof. Constance Rooke, associate vice-president (academic), informed Senate that semester-one applications from students entering directly from secondary school are higher than last year and higher than initially expected. More important, applicants indicating Guelph

as their first choice are up compared with last year, despite an overall decrease across Ontario, she said.

Rooke said this is encouraging news for fall enrolment. Guelph is well-positioned to meet the new enrolment targets with more than 3,500 first-choice applicants and a total of close to 10,000 secondary school students expected to be seeking 2,600 places, she said.

SCUP said there is no other option but to increase enrolment — a reversal of U of G's five-year plan approved in 1992 to decrease student numbers. The committee cautioned, however, that the increased intake will put pressure on faculty, staff and facilities.

Increased enrolment, coupled with the decline in faculty complement, means there must be a review of space capacity, particularly large lecture theatres, said SCUP. Alternative forms of teaching that involve different modes of presentation while maintaining student interaction must be found, and faculty must be innovative in how they teach in a learner-centred university under fiscal constraint.

SCUP agreed that domestic tuition fees should be increased and accepted the proposal to increase fees by an average of 20 per cent. The committee also endorsed the differential increase to the DVM program, noting that this places the program in line with the BLA and B.Sc.(Eng.) programs. Laurie Beattie, chair of Senate Student Caucus, said the caucus and a number of student groups are strongly opposed to the proposed DVM increases.

Prof. Alastair Summerlee, dean of graduate studies, noted that even with this increase, the DVM program tuition fee of \$1,590 per se-

mester in 1996/97 will still be less than that at P.E.I. (\$1,704) and Saskatchewan (\$1,967 in 1995/96). Provost Iain Campbell added that DVM students pay a much smaller fraction of the costs of their education than students in other programs. An increase of 30 per cent in the DVM program and 19.6 per cent in all other programs equals the 20-per-cent average maximum allowed by the province.

SCUP also supported the notion of differential tuition rates in some instances and said the rate should be based both on the cost of offering a program and the income potential of graduates.

The Senate committee recognizes, however, that the differential increase in tuition may produce hardships for current DVM students over and above the difficulties faced by other students on campus. SCUP believes that Guelph's commitment to investing about 18 per cent of new tuition fee revenue in student aid, significantly more than the 10 per cent required by MET and among the highest proposed in the province, will go a long way to address this concern.

At the undergraduate level, 75 per cent of new student aid will be directed to in-course students. SCUP suggested that the maximum amount of the increase in graduate student aid be used to support the graduate teaching assistants (GTA) program. Rooke noted that there must be a major infusion of GTA funds into the colleges if they are to accommodate increased enrolments. SCUP agrees: "Every effort should be made to provide faculty with

See *UNIVERSITY* on page 4

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STUDENT SPEAK

Students give nod to bus pass, CFRU fee hikes

by Joanna Von Felkerzam

Two of three referendums up for consideration in recent Central Student Association (CSA) elections were passed, but a third was defeated. Some 50.8 per cent of students voted in favor of a 93-cent fee increase for CFRU radio and 80.3 per cent supported a 50-cent increase in the bus pass fee, but a human rights fee was rejected.

The failure of the human rights referendum will not deter the CSA from continuing to support a human rights office, says spokesperson Lance Morgan. "And we will definitely run this referendum again," he says. "There is a need for these resources to raise awareness within our University community around human rights issues."

Elected to the 1996/97 CSA executive are Lance Morgan (spokesperson), Kirsten Middleton (external commissioner), Isobel Donaldson (internal), Denise Pirkio (local affairs), Mike Smiley (activities) and Kim Radbourne (finance).

Peter Avgoustis, the CSA's chief returning officer, reports that 27.8 per cent of eligible voters cast ballots, the second highest number in the past six years.

A voice for students

Young Canadian Voices, a semi-annual independent literary journal for young writers that is produced, designed and edited by

its creator, Toby Tsuchida, a seventh-semester English major, is the first venue of its kind for high school writers.

As a student at Centennial CVI, Tsuchida noticed the difficulty involved in his peer writers joining published literary circles.

"Even bad high school writing is a genre in itself... a shunned genre," he says. "A lot of students have a writer's soul, but won't become writers because they are rejected from the beginning."

At university, Tsuchida decided to initiate a venue for these undiscovered talents and "tap into an ignored market." After many conversations with his Centennial teachers, campus faculty and his peers, he embarked on an eight-month production process.

Aiming to reach a wide audience, he sent out submission invitations to English co-ordinators at high schools across most provinces. He received more than 300 submissions, mostly from Vancouver and the Toronto area, but none from Guelph.

Without previous publishing experience, Tsuchida turned to Chris Boyadjian of U of G's Graphic & Print Services for help, requested editing assistance from Matthew Butcher, received encouragement from his high school teacher Pat Bell and approached Prof. Janice Kulyk Keefer, English, for a formal introduction to his first volume of this semi-annual.



Joanna Von Felkerzam

Tsuchida hopes that future issues of *Young Canadian Voices* will include Quebec and more cross-country submissions, reflecting regional diversity and teenage similarities.

As for production costs, he carries all expenses, but remains optimistic. He has sold a third of the released journals and has a variety of distributors, including Provident Books, Generation X Video Store, Macondo Books, Sunrise and the Bookshelf.

The second volume is scheduled for release this summer.

Student journalists meet

More than 100 students from across Canada attended a National Student Journalism Conference on campus this weekend.

Organized by the *Ontario*, the conference opened Friday night with keynote speaker Rick Salutin, a *Globe and Mail* columnist. Saturday speakers were Naomi Klein, former managing editor of *THIS* magazine; Mindy Adams, a Web consultant; Stuart Robertson, counsel to Canadian Press; U of G sociology and anthropology lecturer Linda Hunter; and William Burrill, an editor at *Eye Magazine*. □

Undergraduate lab offerings under review

The Board of Undergraduate Studies (BUGS) has struck an ad hoc subcommittee to review undergraduate laboratory offerings. Although the lab components of science courses will be a major focus, the study will include all forms of course-associated practical experience in U of G's undergraduate programs, including practicums, studio programs, workshops, internships and research opportunities.

The budgetary constraints facing departments and colleges are forcing immediate decisions about possible reductions in course offerings, says BUGS chair Prof. Norman Gibbins, Microbiology.

"The reduction or removal of laboratory components of many courses is becoming an increasingly favored option," he says, "and the practical experience of our baccalaureate students could become significantly diminished as a result."

Gibbins says it's important that the pedagogical ramifications of this reduction are evaluated and that information about actions being taken and opportunities being developed to present sound practical experience with fewer resources are shared widely.

"The intent is to avoid ad hoc reductions as far as possible and to ensure that changes are made in the total context of the programs concerned, that innovative ideas and approaches to the resolution of this problem are identified and shared, and that the overall high quality of the practical experience

in the undergraduate programs is maintained in the new emerging situation."

Specifically, the subcommittee has been charged with:

- determining the extent to which programs and departments plan to change or eliminate labs to meet budgetary exigencies;
- developing recommendations on the role, extent and, where appropriate, consistency of the required practical experience in the baccalaureate programs;
- developing recommendations to ensure that the practical experience in programs and specializations is optimally coherent and co-ordinated;
- examining the application of computer-based instruction to the practical experience; and
- identifying pedagogically sound, cost-effective means of reduction currently in use — or contemplated — and the dissemination of this information to programs, colleges and departments.

Chaired by zoology professor Roselynn Stevenson, the subcommittee consists of Prof. Ken Fisher, Biomedical Sciences; Prof. Michael Peters, Psychology; Prof. Tom Tritschler, Fine Art; Prof. John Dutcher, Physics; Prof. Valerie Allen, HAFA; Prof. Ron Stoltz, Landscape Architecture and Teaching Support Services; Esther Martin, Chemistry and Biochemistry; graduate student Trevor Claxton, Zoology; and undergraduate students Sean Dukelow and Vicky Houtzager. Gibbins will be an ex officio member.

Contributions and opinions are solicited from all members of the academic community. Forward these to Stevenson through the Senate Secretariat, by e-mail at rstevens@uoguelph.ca or by calling Ext. 3577.

The subcommittee is scheduled to produce an interim report by April 30 or earlier and a final report by Aug. 1. □

Obituary

Albert Keegan, south/east area manager for Student Housing Services from 1969 to 1986, died Feb. 22 in Guelph. He is survived by his wife, Alma, one daughter, Geraldine, of Toronto, and one son, Kenneth, of Stratford. A tree will be planted in his memory in the Arboretum's Wall-Custance Memorial Forest Sept. 22 at 2:30 p.m. □

LETTERS

History of veterinary pathology is well documented

In response to my commentary about veterinary pathology in the Feb. 1 issue of *At Guelph*, Prof. Dean Percy's forthright statement Feb. 8 that "with reduced faculty numbers and resources, it will be impossible to maintain the same level of activity in all areas in the future" is reassuring, not because of its substance, but because of its candor. In the Feb. 14 issue, the letter from Prof. Carlton Gyles misses its target, partly from its patronizing tone, but mostly from its flawed substance.

He contends that "those who believe they cannot deviate from the patterns that were successful in the past are doomed to be left behind." This makes it sound as if I were advocating clinging to the patterns of the past. But in my

commentary, I advocated exactly the opposite!

I wrote that, historically, the past in which veterinary pathology was subservient to microbiology was a disaster, clearly documented in my book. *This* is the past I referred to when I applied the philosopher Santayana's warning to either read its history or else be prepared to repeat it.

Prof. Carlton Gyles managed to get this completely turned around. He writes of "patterns that were successful," but I wrote historically of those that were failures. In this case, repeating the failures "looms, in my view, as a giant step backwards." Unfortunately, the word "repetition" was misprinted in my commentary as "reputation"; perhaps this was

confused the professor.

His attempt to sweep uncomfortable historical facts under the rug by saying microbiologists "have long given up the enormous stultifying power they appeared to wield" (my italics) over pathologists is a feeble effort to turn a genuine issue into a non-issue. It implies that my well-documented historical situations where microbiologists became professors (or in government laboratories, directors) while pathologists remained instructors (or bottom-rung civil servants) had not actually occurred.

He writes: "I expect the new Department of Pathobiology will provide a supportive environment for continuing strength in pathology." I entertain no such expecta-

tion in the face of historical evidence. And he provides no evidence to support his claim.

He also writes that the contemplated new arrangement poses no threat to the discipline of pathology, "which will undoubtedly continue to flourish at OVC because of the outstanding personnel in this discipline." Implicit here is that the outstanding personnel will remain at OVC despite a profoundly altered milieu. I do not share this wishful thinking. Indeed, I am skeptical about any prognosis that begins with the word "undoubtedly."

Leon Saunders, OVC '43
University of Pennsylvania

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Redeemer relationship formalized. U of G recently formalized a long-standing relationship with Redeemer College with an agreement to reserve a number of places at Guelph each year for the college's chemistry and biochemistry students. On hand for the occasion were, front from left, president Mordechai Rozanski and Redeemer president Justin Cooper. In back are provost and vice-president (academic) Iain Campbell and Redeemer vice-president academic Elaine Botha. Photo - Kerith Waddington, University Communications

Sigma Xi honors five for excellence

Four members of the U of G community and a local high school teacher have received recognition for excellence in research and teaching in science for 1995 from the Guelph chapter of Sigma Xi.

Prof. Anne Croy, Biomedical Sciences, received the award for career excellence in research for her pioneering work in reproductive immunology and the international stature of her growing research and graduate program.

Doctoral student Robin Hicks, Chemistry and Biochemistry, was honored for best PhD thesis for his research on the design and synthesis of molecular conductors.

The award for best M.Sc. thesis went to Piotr Piotrowski of the Department of Biomedical Sciences.

Research machinist Terry White, Chemistry and Biochemistry, was honored for his support of research in maintaining research equipment worth several million dollars and helping to design and build new equipment.

Michael Elrick, a teacher at Centennial Collegiate Vocational Institute, was recognized for an innovative environmental studies program.

Sigma Xi is a scientific society that promotes science by sponsoring seminars, holding round-table discussions and presenting awards that recognize contributions to science at various levels. Award recipients join a select group of North American scientists who have been honored by the society since it was founded at Cornell University in 1886.

The Guelph chapter of Sigma Xi, founded in the 1960s, has recognized local contributions to science for the past 30 years, says chapter president Prof. Larry Peterson, chair of the Department of Botany. The award recipients reflect the quality of the Guelph scientific community, he says.

"It's important that the many excellent contributions in science made by the University of Guelph community be recognized, and the Sigma Xi awards help do this," he says. □

Athletics investigates hockey initiation

Department of Athletics officials have conducted an investigation into the Guelph Gryphons varsity hockey team's rookie initiation party held on campus Jan. 28.

Athletics director David Copp said Monday that allegations of sexual harassment and dangerous activities at the party are unfounded. After interviewing all the players who attended the party, Copp said he learned that drinking, disrobing and games did occur, but that no sexual harassment or dangerous activities took place.

"The players were unanimous in describing the events as non-coercive and safe," he said.

The event did, however, violate Department of Athletics policy and involved consumption of alcohol in unlicensed premises.

"Team events involving hazing are antithetical to the University's central values of individual dignity and mutual respect," said Copp. "That is why the policy limits team initiations and why immediate action was taken when it was brought to the University's attention."

All intercollegiate teams are on notice that any further violations of this policy will result in suspension, said Brian Sullivan, associate vice-president (student affairs).

Sullivan acknowledged that joining a varsity team is challenging, and it takes work to establish the special chemistry among players that is critical in competition.

"I hope that student athletes and Athletics staff will use intelligence and imagination in any initiation, rather than hazing, to build team spirit," said Sullivan.

"The hockey program has developed an enviable reputation, and I believe it can recover from this unfortunate event."

Marlin Muylaert, head coach of the men's hockey team, was suspended without pay Feb. 22 following confirmation that the initiation party was held. The party was held with his prior knowledge, but he did not attend.

Muylaert was reinstated Feb. 24 after he acknowledged that he was wrong to condone the party and apologized to the Athletics Department and several former players who were excluded from the initiation.

Muylaert said Monday that the episode has "forced me to think a lot harder about team initiations. Even though precautions are taken, there is a risk to those involved and to the University's reputation and potential liability."

Muylaert added that he will be revisiting the initiation tradition with the team. He also plans to do all he can to set the stage for the former players to rejoin the team next season.

Copp is conducting a further study this week of allegations made by two students who were cut from the team and a third who left voluntarily that they were unfairly treated because they were banned from the party and chose to miss practice the next day. Copp said a report on this matter will be submitted to Sullivan by the end of this week.

The hockey Gryphons made it to the Ontario Universities Athletic Association's playoffs last weekend, but lost Saturday's semi-final to Trois Rivières, 4 to 2. □

Co-operation reduces cost of retrofit

by Kerith Waddington
University Communications

Thanks to co-operation between Physical Resources and many individuals across campus, natural gas is being used less frequently on campus in an effort to maintain safety and reduce costs.

A year-long survey of colleges and departments across campus — conducted in the wake of new provincial legislation on the maintenance and handling of natural-gas piping and tubing in schools — revealed a reduced need in many locations for a continual supply of natural gas.

In response, Physical Resources has shut down rarely used gas lines on campus and is adopting some of the cost-saving solutions suggested by faculty and staff, such as providing laboratories and buildings with electric heating devices, small propane tanks and Bunsen burner kits.

Slated for completion by September 1996, the changes were inspired by legislation brought down after a 1992 incident in

which a contained gas leak led to an explosion in a Georgetown-area secondary school.

The original estimated cost of installing emergency shut-off valves and multiple gas valves and creating inspection holes for hidden pipe was \$1.3 million. The innovative efforts of Physical Resources and other members of the community — taking out gas lines altogether or restricting areas to just one valve — means the qualifications established by the fuel and safety branch of the Ministry of Consumer and Commercial Affairs will be met at a cost of about \$300,000.

Provost Iain Campbell strongly commends the joint efforts of various colleges and Physical Resources in this effort.

"Collaboration and innovation have saved us from having to find a million dollars at the worst possible time," he says.

Martin Hodgson, manager of the mechanical section (engineering and construction) of Physical Resources, says U of G's initia-

tive parallels that of other educational institutions responding to the new legislation.

"Universities province-wide are trying to come up with cost-saving alternatives that get the job done but in no way jeopardize the safety of members of their campus," says Hodgson. "We at Physical Resources are happy with the solution we have found to this particular issue, and we will continue to work towards cost- and energy-efficient ways to improve the mechanics of this university."

U of G has had only one natural-gas leak to date — last year on Labor Day just outside the MacNaughton Building. When the leak was determined to be the result of a rusted pipe, the faulty piece was immediately replaced, and cathodic protection — a device that prevents rusting — was inserted. Hodgson assures the community that cathodic protection is available to all lines still running and that regular safety checks are conducted annually. □

Music launches summer institute for strings

Making beautiful music together.

That's what strings — and string players — from across the province and beyond will be doing on campus this June as part of U of G's inaugural Summer Music Institute for Strings.

Established with support from the Alma Mater Fund and featuring distinguished faculty from Europe, the United States and Canada, the institute is an opportunity for professionals, teachers, university students and young artists to study modern and historical playing techniques on violin, viola, cello, viola da gamba and the double bass.

Concerts, master classes, chamber music classes, and technique and repertoire classes will be available to participants from June 23 to 28, and a series of evening concerts will be open to the public. Eminent musicologist and Mozart specialist Neal Zaslaw of Cornell University will present an evening lecture to the public free of charge.

The only summer program in Canada combining performance on modern and early string instruments, the institute is of national and international significance, says Prof. Mary Cyr, chair of the



Department of Music and co-ordinator of the institute.

"The institute provides faculty and students with the exciting opportunity of studying and performing with internationally known artists," says Cyr. "The emphasis on strings this year is especially important for our own program because strings are at the 'core' of the orchestra."

Slated to become an annual event if funding can be secured and collaboration occurs with other universities, the institute may focus in the future on other areas of performance, such as voice or jazz, she says.

For more information about the institute, call the Department of Music at Ext. 3127, fax to 767-2784 or send e-mail to mcyr@arts.uoguelph.ca. □

University 'will do all it can to preserve its reputation and quality'

Continued from page 1

graduate student support for the introductory courses. This will also provide opportunities for increased indirect support of graduate students."

Tuition fees for undergraduate international students are proposed to rise by 19.6 per cent. Tuition fees for international graduate students will be set at a floor of \$7,000 a year — down from the current \$13,000. This decision would move Guelph in a direction opposite to most sister institutions, who are planning to charge international graduate students much higher tuition fees. Jeffrey raised a concern that even this level might be too high to attract international students to science programs at Guelph.

The tuition fee Guelph will charge may be among the lowest in Ontario, but international graduate students are still being required to pay a fee 1.6 times that of domestic graduate students.

SCUP said the University's willingness to lower the international graduate tuition fee to this extent reflects its commitment to internationalism (one of Guelph's strategic directions), an understanding of the importance of graduate students to research programs, and comparative tuition costs in other institutions outside Ontario competing for these students.

The committee supported the differentiated base reductions between the teaching (4.9 per cent) and non-teaching (7.8 per cent) units. The willingness of deans, chairs and managers to work collaboratively to respond to these cuts is to be commended, said SCUP. The committee noted that it recognized the contributions of all staff, but agreed that the teaching units must be protected, so it supported the higher cut to non-teaching units.

SCUP was, however, concerned about the extent of the differentiation of cuts within the teaching units. Although it doesn't support across-the-board cuts, the committee noted that some colleges appear to be taking disproportionately greater cuts, reflecting the impact of SERP and the colleges' ability to contribute based on their flexibility as a result of historical decisions on structure and hiring.

SCUP said it appreciated and reinforces the administration's forthright recognition of these realities and its public statement that the cuts reflect opportunism and structural flexibility, not priorities, strategic decisions or current over or underfunding in any unit.

Campbell assured senators that the cuts taken by the colleges will be reflected in the resource-allocation mechanism now being developed and that he will work with the colleges to make structural changes.

SCUP acknowledged that there are likely to be fundamental changes over the next three to five years and said it is reassured by the administration's commitment that the decisions made during this budget round will be recognized in these plans.

The committee also endorsed the proposal that Board of Governors restructure the repayment schedule of the SERP and Cresap special deficits in 1996/97 from \$7.2 million to \$2.2 million. This will give U of G \$5 million in 1996/97 and the precious time needed to consider restructuring issues, said SCUP.

If this breathing space is not provided, the cuts would probably be across the board, resulting in an unacceptable reduction in quality and additional layoffs, said the committee. The University needs time to make strategic decisions about restructuring efforts, and a change to the repayment schedule will provide it with this window.

SCUP recognized, however, that the debt must be repaid, but at a slower rate, and the deficit will be an integral part of each budget until it is repaid.

The committee said the same argument supports the adoption of an additional \$1.45-million debt to cover the buyout and separation costs involved with the position reductions. This debt will be paid off in

about two years because the positions will not be filled.

Rozanski informed Senate that B of G's finance committee had a "frank, detailed and serious" discussion of the proposed budget solutions last week. The president admitted that the proposal to restructure the repayment schedule is understandably posing some concerns for the finance committee, but said members fully understand the pressures on U of G and are currently favorable to the overall proposed solution.

Rozanski said he is hopeful that the University will receive the board's approval, but said B of G "will be watching to see how we handle the \$700,000 gap still remaining in the budget shortfall and other budget matters."

SCUP also supported the proposed one-time \$2-million expenditure reduction as a bridging to 1997/1998 to provide time until additional enrolment revenue is generated. The committee said it recognizes that this will result in a one-time clawback in the 1996/97 budget year and that budget managers have already been asked to plan for this cut. The precise size of the cut will be determined in November once enrolment figures are confirmed.

Barta noted that it is unprecedented that the operating budget will contain no new initiatives. Nevertheless, a library computer system, a student information system, a financial system and investments in educational technologies are essential if Guelph is to collaborate with neighboring institutions to find long-term cost savings, said SCUP.

The committee supported the proposal to access the Heritage Fund to finance these strategic infrastructure projects, but noted that this means accessing only the undistributed investment income from this fund (not the principal) and excludes the portion that must be reinvested for inflation protection and the 10 per cent required to build the fund that is available. As a result, the Heritage Fund will continue to grow, but at a slower rate, SCUP said.

The committee said it understands the importance of building the Heritage Fund to a significant level before calling further on the investment income and that Guelph must protect its assets to ensure fiscal viability in the future. But these are unique times, said SCUP, and Guelph must be assertive in planning for the future.

Barta added that U of G will be looking to the next fund-raising campaign to provide support for these and other capital projects.

Prof. Peter Pauls, Crop Science, argued that the Heritage Fund money should be targeted in a different direction than the one proposed. "The money should be invested in people, who, in turn, will turn this place around," he said.

Barta replied: "This was not lost on SCUP, but there are severe constraints on how these funds can be used, and spending money on operating costs is just not 'a go.' If the funds are not used to purchase hardware, then we will have to eat away at other parts of the budget for these purchases, and that would mean having to cut more people."

SCUP acknowledged that funding cuts have resulted in progressive weakening of all units and programs. It is imperative that Guelph adopt a resource-allocation mechanism that will distribute resources strategically on the basis of agreed-on criteria, said SCUP, and it has asked the provost to make this a primary goal.

Finally, the committee urged the University community to join the administration in opposing the continual erosion of support for postsecondary education and to pull together, even under greater fiscal restraint, to preserve high academic quality. U of G must do its part in sending a public message about the implications of the underfunding, said SCUP, and presidents of Ontario universities need to be united in their response to these cuts.

The committee urged the Council of Ontario Universities to do all it can to oppose

the competitive and tiered model of university education that appears to be the direction of the present government.

Prof. Keith Cassidy, History, spoke on behalf of the University of Guelph Faculty Association (UGFA). He noted that the funds for TAPSI (faculty) increases have not been factored into the budget shortfall.

"The merit increases are owed to faculty under the University's legal agreement with the UGFA," he said. "This money should be considered by the University as an accumulating deficit, not as a negotiable item."

Following the Senate meeting, Campbell noted that the issue at hand is not the principle of TAPSI, but rather the timing and the method, as per last year's agreement.

Senators applauded a comment by Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science. Noting that students will be paying more for tuition and that faculty still have good jobs, she said it is "incumbent on all of us to give them good value for their dollar. To do this, we must not leave this meeting with a negative spirit."

Rozanski concluded the discussion by reiterating that despite tough times and the unknown future, U of G will do all it can to preserve its reputation and quality. He thanked all faculty, staff and students who participated in the budget-solution process.

Two staff elected

Gillian MacPherson of the OAC dean's office and Dave Robinson of the Department of Biomedical Sciences have been elected to Senate as staff representatives. Their terms begin in September. (See next week's *At Guelph* for more details.)

In other business, Senate approved an Executive Committee proposal calling for the adoption of alternative designations for bachelor's, master's and doctoral degrees. Graduates will have the opportunity to request the designations baccalaureate, magisteriate and doctorate when they apply to graduate, beginning this fall.

The alternative degree nomenclature satisfies those who argue that the master's designation is gender-specific. The term magisteriate is a new word coined by Concordia University professor Katherine Waters. It is derived from the Latin words *magister*, meaning teacher, and *magisterium*, meaning teaching authority. It therefore has an affinity with the traditional meaning of the phrase master of arts, which was originally used in British universities to designate a person qualified to teach undergraduates.

Under the University of Guelph Act, U of G has the legal authority to introduce new degree designations. The policy is retroactive to Guelph graduates who wish to have their degrees changed. A fee will apply. For more information, call the Office of the Registrar.

From the Committee on Bylaws and Membership, Senate approved additional bylaws to govern Senate committees and changes to the membership of Senate boards and committees. Based on a review of the size of Senate and its committees recommended by the Academic Restructuring Committee, the changes are aimed at reducing administrative demands on faculty to give them more time for educational activities.

The committee reviewed the membership of all committees to streamline membership, initiate guiding principles, create greater participation in Senate by non-senators and ensure that the membership provides the experience and expertise demanded by the mandate. The review did not include Senate subcommittees.

Senate also approved that one of the four student representatives on BUGS will preferably be a diploma student and that the membership of the Bylaws and Membership, Awards and Open Learning committees be changed to include two student senators.

In Board of Undergraduate Studies (BUGS) business, Senate accepted changes

to the unclassified and open-learning programs. BUGS chair Prof. Norman Gibbins, Microbiology, said the changes will make the programs more appropriate to the needs of student groups and will streamline procedures and processes.

Beginning this winter, students in the distance-only study mode, including those taking certificate programs from Distance Education, will be registered through the Office of Open Learning. Their names will not appear on the student information system, and their admission, registration, advising and academic-review needs will be handled by Open Learning.

These students will be able to take campus courses on a part-time-only basis, provided that space is available in the course and the department gives approval. In these cases, Open Learning will handle course selection, registration, grade submissions and academic review, in consultation with the department. This option is not available to open-learning students who have previously been required to withdraw from a degree program at Guelph and are ineligible to continue in the program.

Senate also endorsed discontinuation of the unclassified category. Students served by this program, other than open-learning students, will be admitted to degree programs with designations.

Senators supported a BUGS motion that each program committee adopt admission policies for students wishing external and internal transfers. Under these two policies, students will be admitted from another university, when space permits, or allowed to transfer to another program if they have completed at least four university-level courses and any specific subject requirements or equivalents, if they have achieved an overall average of at least 60 per cent, and if their academic record meets the requirements of the schedule for continuation of students. The new policies would come into effect this fall.

Senate also agreed that the internal transfer policy should apply to students wishing to transfer from the open-learning program to a degree program.

After lengthy debate, Senate endorsed changes to operating principles recommended by the Board of Graduate Studies (BGS) and simplified eligibility criteria for the University Graduate Scholarship Program. Established by BGS six years ago and subject to a five-year review, the program proposed the offering of 625 scholarships of \$2,000 each to graduate students in all programs. To date, however, funds have been found for only 300 awards. In 1996/97, the awards will be increased to \$2,000.

There was little Senate discussion on the criteria, but several College of Arts senators, including Profs. Peter Briggs, English, Ric Knowles, Drama, and Bill Hughes, Philosophy, argued that arts programs would be the greatest losers in the proposed new allocation system.

Prof. Marjorie Wall, chair of the Department of Consumer Studies, said her department would lose four awards — the largest loss of all programs. Summerlee noted that seven of the 10 programs that will have reduced awards did not allocate previous awards within one year. These awards then reverted back to BGS and were reallocated in an open competition.

Rooke and Summerlee suggested that senators were having difficulty with the motions because they were confusing the need for awards with the even greater need for GTA funding. They called on the good faith of senators to support these motions with assurance that the GTA funding issue will be resolved when new tuition revenue becomes available.

Senate also backed, with no discussion, a BGS motion that part-time graduate students be defined on the basis of the program they're registered in. This operating principle is necessary because of changes made by MET. Universities can no longer define part- and full-time students on the basis of their employment status. □

BOOKS

History of Canadian elderly shows changing perceptions in society

by Margaret Boyd
University Communications

The Citizen's Wage is the title of a new book on the history of the elderly and the development of the old-age pension program in Canada, written by Prof. Jamie Snell, History, and published by University of Toronto Press.

The work traces the responses of the state, the elderly themselves and their families to the changing perceptions of the elderly in 20th-century society.

Early in the 20th century, the elderly began to be regarded as a distinct group, with shared characteristics and "problems." Old people tended to be poor, lacked adequate resources and tended to be unable to help themselves. New ways of treating the elderly, or at least those elderly in need, developed. Separate "homes" for the elderly poor, for example, were established by provincial governments and charities.

To compensate for growing age discrimination in the workplace, new ways of supporting the needy elderly were necessary, says Snell. In the early 1920s, most provincial governments adopted legislation forcing adult children to support their elderly parents in need. This simply enforced what had long been the primary source of support for the needy elderly — the family.

In 1927, another tactic was adopted with the passage of the first old-age pension program in Canada. The first old-age pension was based on a means test, which caused all sorts of manoeuvring by the elderly and their families to gain eligibility, says Snell. To qualify for the pension, assets were often hidden or dispersed, and family support was altered.

There arose what he calls a "culture of entitlement." The elderly and their families were basically saying that "the government owes us because we've built this society" and "we have contributed to the state coffers, and the more taxes we have contributed, the more we should get back."

Besides individual ma-

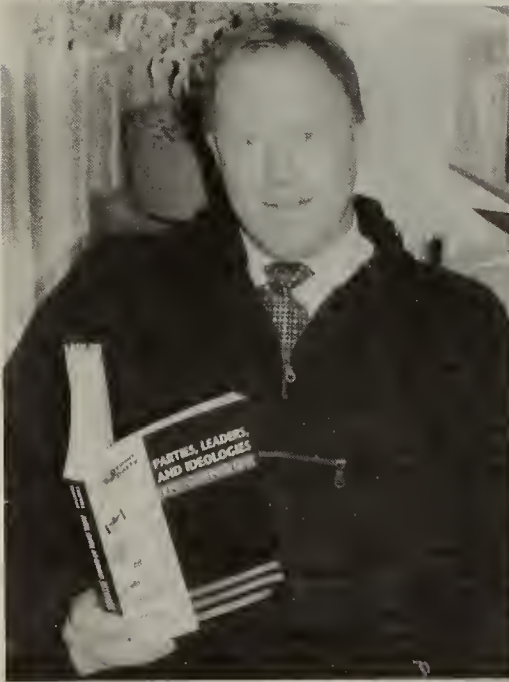
noeuving, the "grey lobby" began in the 1930s. Seniors started to acquire a group consciousness and to accept the characteristics they were becoming labelled with, says Snell. The group culture was particularly noticeable where related social movements were already in place — British Columbia, the Prairies and Nova Scotia. A number of leaders of the "grey lobby" brought with them experience from farmers' movements or from organized labor.

The "grey lobby" gave greater force to the "culture of entitlement," says Snell. The organized elderly, who began to call themselves "senior citizens," pushed

the state to recognize their "rights" — to pay them "a citizen's wage."

During the 1940s, the elderly won important victories as the regulations for the old-age pension were relaxed, and more and more elderly joined the program. This led to the establishment of a universal old-age pension in 1951. In addition, seniors' discounts and medical support for pensioners began to appear.

By 1951, the claims of the elderly for state support had become entrenched. The debate was not whether the elderly were entitled to support, but how that support would be provided. □



Prof. William Christian

Political party leaders have vision for Canada

by Kerith Waddington
University Communications

The only integrated and comprehensive treatment of political ideologies in Canada is now available at U of G.

Parties, Leaders and Ideologies in Canada — written by Prof. William Christian, Political Studies, in collaboration with Toronto lawyer Colin Campbell — takes a look at the development and articulation of political beliefs in a Canadian context. Surveying the topics historically, the text also describes and assesses changes occurring in national parties and political thinking over the past few years.

Christian believes the text renders comprehensible the many gyrations of Canadian politics.

"There is still the widespread view that Canadian parties don't stand for anything in particular,"

he says. "This book is an attempt to show people that the leaders of these parties are not driven merely by the desire for power but do have a vision of the kind of country they want to live in. And that there are essential differences at the heart of each political party."

The rise of populism (an ideology embraced by the Reform Party), the expression of nationalism by Canadians and Quebecers, and the rise and fall of fringe parties that have advocated change through violence are also examined.

Being used at U of G for the second-year course "Canadian Politics" and at Simon Fraser University, *Parties, Leaders and Ideologies in Canada* is nonetheless accessible to the general reader, Christian says. □



Prof. Hugh Lehman

Photos - Kerith Waddington

Rationality, ethics in agriculture explored

Is it rational to attribute beliefs or desires to animals? Does rationality require holistic thinking in agriculture? Can agricultural policy be determined by reason alone?

These are some of the questions Prof. Hugh Lehman, Philosophy, addresses in his new book, *Rationality and Ethics in Agriculture*. In it, he explores contemporary social criticism of agriculture related to such issues as animal welfare, biotechnology, and ethics and human nature. And given that the rationality of so many agricultural policies, practices and practitioners is questioned, Lehman raises issues surrounding its assessment.

In so doing, he challenges agrologists, producers, philosophers interested in agricultural practices and others to think care-

fully and deeply about their views.

"Although we all make general philosophical assumptions, we don't always rigorously analyse and evaluate them, nor detect any inconsistencies or apply individual principles in a rigorously consistent manner," says Lehman. "Philosophical thought can make a major contribution toward improving our thinking about our social practices and, ultimately, toward improving the practices themselves."

Rationality and Ethics in Agriculture is available at the Campus Bookstore. The book does not presuppose prior training in philosophy, says Lehman, so it might be of interest to students, agricultural scientists and members of the public. □

Retired historian pens Cody biography

Henry John Cody, An Outstanding Life by retired history professor Donald Masters is the first in-depth look at the renowned Anglican minister, politician and university president.

Published by Dundurn Press of Toronto, the book examines the considerable impact Cody made on Canada during the first half of the 20th century. Cody served as rector at St. Paul's Church in Toronto from 1899 to 1932, as Ontario minister of education from 1918 to 1919 and as president of the University of Toronto from 1932 to 1945.

"There were two strands to his life — church and education, and politics to some extent," says Masters.

While at St. Paul's, Cody built it into the largest Anglican church in Canada and was involved in

drafting the first Canadian Anglican Book of Common Prayer. He once preached before the King and Queen at Buckingham Palace and to the English-speaking members of the League of Nations. He had studied theology at Wycliffe College in Toronto after graduating with honors from the University of Toronto.

His two main achievements as president of U of T were guiding the university through the Depression years and seeing it through the Second World War.

The book details the famous Underhill case concerning history professor Frank Underhill, who was a centre of controversy in the '30s. The controversy surrounded his anti-British sentiments and calls for his dismissal. Cody was at first in favor of his dismissal, then changed his mind and went

against the board of governors in the final decision.

As minister of education, he was responsible for several new pieces of legislation, including raising the age for leaving high school from 14 to 16.

Cody was something of a hero to the Masters family. Masters's father, an Anglican minister, had been taught by Cody. And it was Cody who presented Donald Masters with an academic award on his graduation from Ridley College in St. Catharines.

Masters was head of history at Bishop's University and taught Canadian history at Guelph from 1966 until 1974. He is the author of six books, including *The Reciprocity Treaty of 1854*, *The Winnipeg General Strike* and *Ten Rings on the Oak*, which he co-wrote with his wife, Marjorie. □

Community

NOTICES

First aid training

Training in CPR and first aid will be offered to U of G students and employees March 16 from 4 to 8 p.m. (heart-saver level CPR), March 10 from 10 a.m. to 6 p.m. (basic rescuer-level CPR) and March 17 and 24 from 10 a.m. to 6 p.m. (standard-level first aid). For more information, call David Hayter at 823-1369.

Spring craft sale

Vendors are wanted for a spring craft sale to be held at Mary Phelan School April 27 from 10 a.m. to 3 p.m. Rental fee is \$25. For details, call 836-7019 or 763-9622

Art exhibit

The University Club presents the show "Happy and Joyful Being" by artist Shirley Allan until March 30. Meet the artist March 10 from 2 to 5 p.m. in the club.

Race relations talk

The Department of English and Collaborative International Development Studies are sponsoring a talk on "Recognizing Native Rights: Changing Place Names in

South Africa" by Elwyn Jenkins, chair of the executive committee of the South African Institute of Race Relations, March 6 from noon to 1:30 p.m. in Room 313 of the MacKinnon Building.

OAC class signs on

Members of the OAC class of '97 should check their e-mail accounts for a message pertaining to a class initiative to join the OAC Alumni Association. Information on payment and registration is included in the e-mail message and must be received by David Hayter by March 16.

In the swim of things

The Guelph Marlin Aquatic Club, a non-profit swim club committed to promoting the values of com-

petitive swimming through instruction of stroke technique, is registering young swimmers (aged six to 12) for the spring session of the pre-competitive group starting the week of March 17. For more information, call Bill Humby at 837-3092 or Anne Ottenbrite at Ext. 6155.

Office professionals meet

The Guelph Chapter of PSI, the Association for Office Professionals, will meet March 13 at the College Inn. Dinner is at 6 p.m., followed by the presentation "Income Tax — the Form (Part 2)."

Guests are welcome. For more information, call 767-2590.

Latin American fiesta

Walt Boduch and Scion Securities Corp. present an evening of Latin food, fun and dance March 8 at the Italian Canadian Club in Guelph. Proceeds go to St. John's Kilmarnock School and Canada School in Guatemala. For information and tickets, call St. John's at 648-2183 or Times and Seasons Flower Shop at 856-1188. □

PEOPLE

Prof. Jack Trevors, Environmental Biology, was recently appointed the North American managing editor for *Antonie van Leeuwenhoek International Journal of General and Molecular Microbiology*.

Bernard Katz of the Library has given several presentations on copyright recently. In November, he led a seminar/workshop on "The Impact of Electronic Intellectual Property Issues on Access to Information over the Internet" for the Ontario Library Association in Toronto. Alan Gale and Doug Horne of the library attended as resource people. In January, Katz spoke on "Copyright in the Digital Age — What Has Changed Since 1710?" at the Internet World Canada '96 Conference and Exhibition in Toronto. "What Users of Copyright Works Expect, Digitally Speaking" was his topic at the Digital Knowledge Conference in Toronto in February. □

GRADUATE NEWS

The final oral examination of PhD candidate Stephen Gismond, Mathematics and Statistics, is March 15 at 2 p.m. in Room 261 of the Chemistry and Microbiology Building. The thesis is "The Solution Set of an O(n3) by O(n4) Constrained Linear System Projected on to an m(n-1)! Faceted, n!-1 Extreme Point Polytope." His adviser is Prof. Ted Swart.

The final oral examination of Padraig Duignan, a PhD candidate in the Department of Pathology, is March 20. The seminar is at 10 a.m. in Room 1715 of the

OVC Learning Centre, followed by the defence in Room 1101 of Pathology. The thesis is "Studies on the Epizootiology and Immunology of Morbillivirus Infection in Marine Mammals of the Western Atlantic." The adviser is Prof. Joe Geraci.

Interested members of the University community are invited to attend. □

JOBS

As of At Guelph deadline March 1, the following opportunity was available to on-campus employees only:

Administrative Assistant, Biomedical Sciences. Salary: \$29,114 minimum, \$34,208 normal hiring limit, \$43,670 maximum. Removal date: March 8. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

Corrections

The Feb. 28 article "GUARD Inc. Issues Preliminary Prospectus" contained an incorrect figure. It should have said that GUARD's "initial public offering will build on the \$1.2-million foundation," not the \$2.1-million foundation.

The Feb. 28 article "Recycling Tips for Wet/Dry Program" should have said that fine paper and corrugated cardboard will continue to be recycled at U of G, but will be streams separate from wet/dry. Fine paper will still be collected in the blue desk pails; corrugated cardboard recycling will continue in the large green labelled dumpsters. □

CLASSIFIEDS

FOR SALE

Child's Peg Perego electric ride-on vehicle, brand new, best offer, 822-3729.

Four-bedroom home in old University area, four baths, two fireplaces, fenced yard, high-efficiency gas, 767-1519.

Six-bedroom bungalow, two kitchens, two baths, living room with fireplace, fenced yard, carport, 10-minute walk to campus, ideal investment opportunity for student entrepreneur, Kim, 836-0737.

FOR RENT

Two-bedroom furnished apartment, suit visiting faculty, reasonable rent, eight minutes to campus, available March 8, 905-823-4042.

FOR RENT

Three large basement rooms, share bath and kitchen facilities, air conditioned, use of patio and yard, laundry, private entrance, 10-minute walk to campus, available May 1 to Aug. 31, \$200 a month per room inclusive, Colleen, Ext. 3842 or leave message at 836-3892.

Fully furnished three- or four-bedroom home, hardwood floors, fireplaces, two sunrooms, deck, porch, large partly fenced yard, laundry, parking, near Elora Gorge and swimming quarry, available April to July 1996, \$700 a month inclusive, 787-0609.

Two well-equipped cottages in Provence, southern France, also bed and breakfast facilities for small groups, Pat, (33) 90972041 or fax (33) 90972087.

WANTED

One- or two-bedroom apartment in country or country-like setting in Kitchener/Guelph area, Ext. 2613.

Housemate to share luxury home with one other person, country setting, 20-minute drive to campus, available from April 1, \$300 a month inclusive, Ext. 3990.

Painters for summer employment, Peterborough area, experience not necessary, great income possibilities, Dave, 821-3770.

AVAILABLE

Care for your dog in my home while you travel, references available, Cobi, Ext. 6010 or 836-8086.

Pet sitting by veterinarian, pet nursing care if required, security-cleared individual, Janis, 766-0634.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre or fax to 824-7962. For more information, call Ext. 6581.

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March Break

Fun for Kids at Douglas Street Studios

Come to Art Break! Kids will learn fun stuff like cartooning, drawing, painting, photography, sculpture and even design their own t-shirt.

Art Break will run from Monday, March 11 to Friday, March 15 from 9 a.m. to noon for ages 5 to 8 and also from 1 to 4 p.m. for ages 9 to 12.

\$135 includes all art supplies, taxes and a week of fun and interactive learning!



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CALENDAR

THURSDAY, March 7

Pathology Seminar - "Does Vaccination Cause Glomerular Disease?" is the topic of graduate student Shelley Newman at 11:10 a.m. in Pathology 2152.

Cultural Studies Lecture - The Centre for Cultural Studies and the Department of English present Danny O'Quinn speaking on "A Flower is a Lovesome Thing" at noon in MacKinnon 132.

Concert - Valerie Candelaria performs on piano at 12:10 p.m. in MacKinnon 107. Admission is free.

Workshop - Teaching Support Services provides an introduction to Multimedia ToolBook from 1 to 4 p.m. in McLaughlin 103. Some knowledge of Windows is required. Register at Ext. 2427 or hmartin@tss.uoguelph.ca.

Population Medicine Seminar - "My Name Is Carol and I Work at a Health Unit: Confessions of an Epidemiologist with a Job" is the topic of Carol Mulder at 4 p.m. in OVC 1715.

Workshop - The Counselling Unit hosts a session on "Creative Journal Writing" at 5 p.m. in UC 334.

International Women's Week - Paula Caplan of the University of Toronto discusses exploitation by those in positions of power at 5:15 p.m. in MacNaughton 105. A panel discussion follows at 7:30 p.m.

Film - *The Giant Rock 'n' Roll Swindle* runs at 7:30 p.m. at the Macdonald Stewart Art Centre.

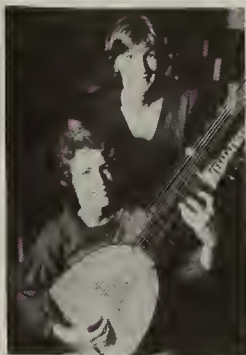
FRIDAY, March 8

Human Biology and Nutritional Sciences Seminar - Graduate student Sylvia Gillis discusses "Early Markers of Liver Fibrosis During Long-Term Ethanol Feeding in Rats" at 11:10 a.m. in Animal Science/Nutrition 141.

International Women's Week - The Department of English and the women's studies program present prize-winning Vancouver writer Gayla Reed reading from her new book, *To be There With You*, at noon in MacKinnon 224. A panel discussion on "Sex, Youth and Development: A Canadian Cross-Cultural Dialogue" runs from 1 to 3 p.m. in MacKinnon 308.

Biomedical Sciences Seminar - "Influence of Circulating Hormones on Hepatic T3 Release in Rainbow Trout" is the topic of graduate student Suzanne Welsh at 12:10 p.m. in OVC 1642.

Evolution and Systematics Seminar - Chris Eckhart of Queen's University considers



Soprano Sally Sanford and Catherine Liddell on lute/theorbo perform March 14 at 12:10 p.m.

"Mating System Evolution in the Clonal Shrub, *Decodon*" at 3:10 p.m. in Axelrod 259.

Economics Seminar - "Is It Better to Give Than Receive? Voluntary Transfers in a Regional Model" is the focus of Tracy Snoddon of Wilfrid Laurier University at 3:30 p.m. in MacKinnon 235.

MONDAY, March 11

Food Science Seminar - PhD candidate Samson Agboola discusses "Studies on the Stability of Oil in Water Emulsions Formed Using Milk Proteins" at 10 a.m. in Animal Science/Nutrition 141.

Lecture - "The Philosophy and Music of Wiltold Lutoslawski" is the topic of Department of Music graduate Greg Dorter at 12:10 p.m. in MacKinnon 107.

TUESDAY, March 12

Animal and Poultry Science Seminars - M.Sc. student Barb Green discusses "Ionophores to Prevent Subclinical Ketosis in Dairy Cows," and M.Sc. student Rob Acom explains "Use of Microwaves as a Source of Supplemental Heat for Weaner Pigs" at 11:10 a.m. in Animal Science/Nutrition 141.

Food Science Seminar - "Synthesis and Properties of Protein-Based Biodegradable Hydrogel" is the topic of Srinivasan Damodaran of the University of Wisconsin at noon in Axelrod 117.

Chemistry and Biochemistry Seminar - Sandro Gambarotta of the University of Ottawa explores "Dinitrogen Activation: 30 Years from Discovery — Prospective Results and Challenges" at 2:10 p.m. in MacNaughton 222.

Physics Lecture - Gretchen Harris of the University of Waterloo, this year's Canadian Association of Physicists Undergraduate Lecturer, discusses "Is Our Galaxy Older Than the Universe? What's the Problem?" at 3:30 p.m. in MacNaughton 113.

WEDNESDAY, March 13

Third Age Learning - The lecture series for retired people continues with Prof. K.C. Tan, Geography, discussing "China, Taiwan and Hong Kong" at 10 a.m. and retired English professor John Bligh exploring "*Amadeus* by Peter Shaffer" at 1:30 p.m. Lectures are at the Arboretum Centre.

Cultural Studies Lecture - The Centre for Cultural Studies and the Department of English present Prof. Michael Keefer, English, speaking on "The Dreamer's Path: Descartes and the 16th Century" at noon in MacKinnon 904.

Political Studies Lecture - Garrett Lambert, commissioner for Canada/Hong Kong, will discuss "Hong Kong and the Transition to Chinese Sovereignty July 1997" at 3:10 p.m. in MacKinnon 316.

THURSDAY, March 14

Pathology Seminar - Graduate student Marianne van den Heuvel considers "Suppression of Bovine Leukemia Virus Expression" at 11:10 a.m. in Pathology 2152.

Concert - Soprano Sally Sanford joins Catherine Liddell on lute/theorbo at 12:10 p.m. in MacKinnon 107.

Canadian Studies Lecture - Robert Kline of TVOntario talks about "*Imprint* — Television and Literature: Can They Coexist?" at noon in MacKinnon 226. Cost is \$15. Register at Ext. 3064.

Plant Biology Seminar - Jacqueline Fletcher of Oklahoma State University discusses "A Spiroplasma's View of Rapid Transit: Why All the Passengers Don't Get Off the Bus" at 3 p.m. in Axelrod 117.

Macdonald Stewart Art Centre - Prof. Margaret Priest, Fine Art, discusses her new show, "To View from Here," at 4:15 p.m.

Workshop - The Counselling Unit hosts a session on "Body Image" at 5 p.m. in UC 334.

Film - *Truth or Dare* begins at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, MARCH 15

Scottish Studies Seminar - "Canada and Britishness" is the focus of Paul Buckner of the University of New Brunswick at noon in MacKinnon 132.

Evolution and Systematics Seminar - Prof. Teri Crease, Zoology, discusses "Concerted Evolution in the Ribosomal Genes of *Daphnia pulex*" at 3:10 p.m. in Axelrod 259.

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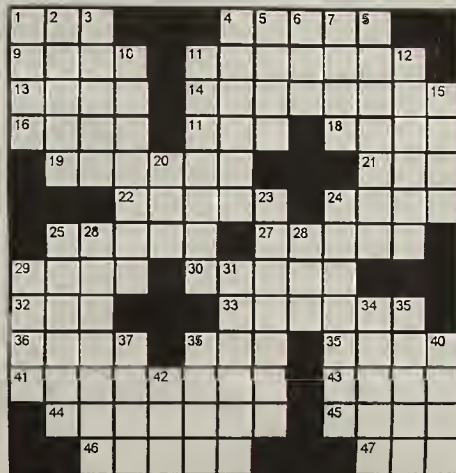


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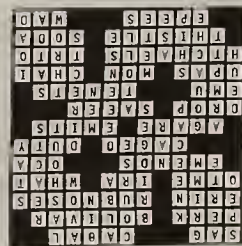


ACROSS

1. Hang unevenly
4. Clique (for some sinister purpose)
9. Raise briskly
11. Venezuelan liberator
13. Shamrock
14. Greet like Eskimos
16. Two nickels
17. George's partner
18. That which improves the text of
21. Wood sorrel
22. Imprisoned
24. Obligation
25. Wide open
27. Gives off
29. Let fall
30. More protected
32. Australian bird
33. Doctrines
36. Javanese tree
38. After Sun.
39. Talk familiarly
41. Douglas and Jackson
43. Group of three
44. Prickly plant
45. Soft drink
46. Fencing swords
47. Roll of banknotes

DOWN

1. Made tracks
2. Eagle's nest
3. Fairy tale collector
4. Compass heading
5. White substance of the brain
6. Coal receptacle
7. Declare openly
8. Break into angry verbal abuse
10. Patella
11. Boney ridges of the nose
12. Responds
15. Guy rope
20. Short sleep
23. Protection
24. Runs the show
25. Axilla
26. Painting



WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church, 87 Dean Ave. □

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POSITIONS ELSEWHERE

The University of Winnipeg invites applications and nominations for the position of vice-president (academic) to assume duties July 1. Send applications and nominations to Marsha Hanen, President and Vice-Chancellor, University of Winnipeg, Winnipeg, Man. R3B 2E9.

The University of British Columbia is seeking candidates for the position of dean of the faculty of arts to assume duties by July 1. Applicants should send a curriculum and the names of three referees by March 22 to Daniel Birch,

Vice-President Academic and Provost, University of British Columbia, 6328 Memorial Rd., Vancouver, B.C. V6T 1Z2.

The University of Northern British Columbia seeks applications for the position of vice-president academic. Applications with CV and three letters of reference should be submitted by March 29 to President Charles Jago, University of Northern British Columbia, 3333 University Way, Prince George, B.C. V2N 4Z9. □

Faculty talks planned

Continued from page 1

New this year is a fly-fishing exhibit, featuring Ian James of Guelph. College Royal visitors are invited to collect fur and feathers from their pets and have them made into unique fishing fly ties at the new Hagen Aqualab on Christie Lane.

C. David Johnson, star of the CBC series *Street Legal*, will tie flies on Sunday afternoon from noon to 4 p.m.

One of the most popular displays is the Wild Bird Clinic, which will feature flight demonstrations and eagle feedings. Learn about the origins and physiology of birds species through an exploration of the biological evolution of birds.

This year's Curtain Call produc-

tion is the Andrew Lloyd Webber musical *Jesus Christ Superstar*. It runs March 14 to 16 at 8 p.m. and March 16 at 2 p.m. in War Memorial Hall.

At Zavitz Hall, fine art students will exhibit their work as part of their 28th annual juried art show.

College Royal will also feature a series of talks and question periods led by Guelph faculty members. Scheduled for both Saturday and Sunday, these talks will cover such topics as wildlife health and disease, nutritional tips for better health, music, microbiology and an update on melatonin.

A shuttlebus will be available to transport visitors to events across campus. Maps and information will be available in the University Centre. Guided tours of the campus will also be offered. □

Women's Campus Safety Fund provides support for 15 initiatives

by Kerith Waddington
University Communications

Fifteen initiatives that promote campus safety for women are receiving funding this year through a grant from the Ministry of Education and Training.

The \$50,000 grant will target those in high-risk groups, such as shift workers, disabled women, women in non-traditional studies, lesbians and bisexual women.

This is the fourth year the ministry has funded such initiatives.

Jose Robinson, director of Student Health Services, says this support is critically important to the promotion of campus safety because other sources of funding are drying up.

"Previously supported initiatives have made important contributions to the changing of community attitudes towards marginalized women and have supported their protection and empowerment," says Robinson.

"This has also sent a very important message to the target populations that the ministry and their institutions care and are concerned about the need for a respectful and safe environment for them to live, study and work in."

The following initiatives receiving funding:

■ **Women's Resource Centre** — \$8,500 for a lecture workshop series called "Women, This Concerns You," \$6,500 to

buy resource material and shelving, and \$2,900 for WenDo and dyke defence courses.

■ **Central Student Association (CSA) Human Rights Office** — \$500 for the 1996 Sexual Gay/Lesbian Awareness Day and \$1,000 for International Women's Week and Anti-Racism Week.

■ **Sabrina Salahadeen/OPIRG** — \$8,500 to establish an OPIRG working group on the prevention of racism and sexism.

■ **Men Against Violence Committee** — \$500 for resource centre materials.

■ **Human Rights Office** — \$4,000 to buy "What Do You See?" pamphlets.

■ **CSA Safe Walk Program** — \$400 for bicycle equipment.

■ **WETT Troupe** — \$3,100 for support of volunteer recognition.

■ **GLOBE** — \$600 for resources for Gayline.

■ **Womynmade Collective at CFRU/Michele Collins** — \$6,500 for the Womynmade collective show.

■ **Security Services/Robin Begin** — \$500 for a video on sexual assault.

■ **Centre for Students with Disabilities** — \$400 for the Recreational Equality on Campus Club.

■ **Department of Mathematics and Statistics** — \$1,100 for electronic door-closing devices.

A call will go out in September for proposals that support current programs, says Robinson. □

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38-30468	Communication Process
38-30868	Technology in Extension
39-10168	Human Development
39-20168	Couple and Family Relationships
39-21068	Development of Human Sexuality
42-34468	Topics in Food Science
44-10968	Basic French
46-11068	Principles of Geology
49-30368	Celtic Britain and Ireland to 1066
49-35368	Celtic Britain and Ireland Since 1603
58-20568	The 5000 Days
58-32568	Beyond the 5000 Days
67-10668	Introduction to Music
87-21268	Introduction to Environmental Stewardship

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Regular access to an IBM compatible computer with modem required

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Access to a cassette player with microphone attachment required

Access to an IBM compatible computer with modem recommended

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For a complete listing of courses available by distance or for more information, please contact the Office of Open Learning-Distance Education, Room 153, Johnston Hall. Telephone (519) 824-4120, Ext. 6775

AT GUELPH

40th
Year

Volume 40 No. 10

University of Guelph, Guelph, Ontario

March 13, 1996

AT A GLANCE

Welcome to College Royal! Thousands of visitors are expected on campus this weekend for the 72nd annual College Royal open house. Organized by students, the open house runs Saturday from 9 a.m. to 5 p.m. and Sunday from 10 a.m. to 5 p.m. All the traditional events such as live animal surgery, a chemistry magic show, square dancing, a petting zoo, and cat and dog shows are back. New this year is a fly-fishing exhibit featuring Ian James of Guelph and special guest C. David Johnson, star of the CBC series *Street Legal*. Also scheduled are children's activities at FACS, a juried art show in Zavitz Hall, the Talentfest open stage and talks by faculty. This year's Curtain Call production, *Jesus Christ Superstar*, runs March 14 to 16 at 8 p.m. and March 16 at 2 p.m. in War Memorial Hall. A shuttlebus will be available to transport visitors across campus. Information and maps will be available in the University Centre.

Staff join Senate. The first two U of G non-teaching staff to be elected to Senate begin their terms in September... *page 3*

Have a cuppa! Greenhouse Café customers appreciate Lee McDermott's friendly approach... *page 4*

Her lamp keeps burning. Known as a heroic nurse, Florence Nightingale was also a brilliant social scientist who lobbied for social change... *page 5*

Thought for the week

When your friends begin to flatter you on how young you look, it's a sure sign you're getting old.

Mark Twain



Reading between the lines. Animals at OVC's Small-Animal Clinic have lots of good reading material when answering nature's call, thanks to the *Guelph Mercury*. The newspaper has donated a half tonne of back issues each month for 10 years to the clinic for use as animal litter. Checking the latest headlines are beagle pups Elisha, left, and Abraham. On hand to help with the big words are Anne O'Donnell, lead hand of the animal housing division, and Martin Doherty, circulation manager for *The Mercury*. Photo - Kerith Waddington

Macdonald Stewart receives largest federal program grant

The Macdonald Stewart Art Centre (MSAC) has received the biggest annual program grant from the Canada Council for 1996/97. The centre will receive \$32,000, an increase of \$18,000 over the last fiscal year.

This news comes on the heels of a similar announcement by the Ontario Arts Council, which gave MSAC the largest annual program grant increase out of 50 Ontario art galleries for the 1995/96 fiscal year.

Both grants recognize the centre's outstanding and continuing commitment to contemporary art through exhibiting, publishing, collecting and interpreting, says MSAC director Judy Nasby.

"We have a unique role among Canadian public galleries in that we serve the campus and broader communities and house a major art collection," says Nasby. "This recognition by the Canada Council acknowledges our staff's innovative approach to presenting contemporary art to the broader public

we serve and bringing international artists and critics to Guelph for exhibitions and short-term residencies. I believe it also acknowledges our strong collecting focus on acquiring major contemporary works and continuing research on Inuit art and outdoor sculpture."

The annual competition is open to more than 200 Canadian art galleries, and awards are given as the result of a peer assessment panel. Programming grants are based on the quality and significance of programs offered and are not dependent on the size of the institution.

The Canada Council funds will go towards programming enhancements at MSAC such as exhibitions, lectures, artists' talks and films, as well as academic and research support for students, faculty, artists and area teachers, rather than for operating costs, says Nasby. □

Science and Society project set to launch

An innovative pilot project to incorporate undergraduate courses into the curriculum to address the ethics and societal implications of new technology has been launched at Guelph and the University of Waterloo by former Board of Governors chair Ken Murray.

Murray, a 1950 OAC graduate who was B of G chair from 1976 to 1979 and recently served as interim vice-president (University affairs and development), is providing an initial \$100,000 to establish the two-year teaching, research and communications project, to be called "Science and Society."

A longtime supporter of Guelph, Murray says he wanted to give the University an opportunity to provide leadership in the study of emerging technologies and their implications for society.

"I'm concerned that we're not teaching students to be knowledgeable about the social and ethical implications of new science and technology," he says. "My goal is to develop in students and researchers the ability to debate and consider the societal issues and concerns that arise when new technology is developed and introduced."

To that end, "I'd like to see such discussion topics in undergraduate curriculum, initially in OAC and ultimately as a model for the entire University."

OAC dean Rob McLoughlin says Murray's goals are "extremely supportive of the B.Sc.(Agr.) Vision '95 program goals and will greatly assist us in implementing the new curriculum. They also fit well with U of G's learning objectives and will adapt well in a number of our degree programs."

In addition to incorporating undergraduate teaching modules into the universities' curriculum, the project will conduct applied research on societal aspects of technological change and develop public communications guidelines to explain research and development activity and associated technological innovation.

"This is a great project, reflective of Ken's innovation and 'big picture' thinking about the ethical dimensions of science and technology in society," says president Mordechai Rozanski. "And I am enthusiastic about the collaboration with Waterloo. It's a great university, and we are working hard together to be creative and to build on such collaborations in a time of severe disinvestment in universities. I am particularly delighted that Ken has reinforced our commitment to integrating teaching and research at the undergraduate level."

Waterloo president James Downey says his university is "delighted to participate in this co-operative venture. It will enrich the already strong relations between two institutions with well-earned reputations for marrying the results of academic inquiry to the needs of human society. And it seems altogether fitting that Ken Murray, who has had such an important association with both universities, should be the matchmaker."

The academic base for Science and Society will be the Department of Food Science at Guelph and the Centre for Society, Technology and Values at

See SCIENCE on page 4

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Judicial Committee update

Editor's note: This is part of a series of articles on the work of the University Judicial Committee. Provided by judicial officer Kathleen Kwan, this series aims to better inform the University community about the results of infractions of the student rights and responsibilities regulations.

The committee continues to deal with a variety of issues, ranging from a "shooters party" in residence to the unlawful removal of fire-protection equipment.

One type of case the committee has heard several times involves students charged with permitting the use of their telephone to convey an obscene message. In several of the cases, the students did not actively give permission for someone to use their phone, but their rooms had been left unattended and accessible to others.

Regulation 3 of the student rights and responsibilities specifically states that simply permitting one's telephone to be used to convey an objectionable message is prohibited. The committee hopes students will recognize the scope of the responsibility entailed in leaving one's room unattended and unsecured.

The following are brief summaries of selected cases heard by the Judicial Committee.

1. Security Services charged three students with selling liquor without a permit and offering for sale liquor without a permit. The students pleaded not guilty, saying their actions in arranging a "shooters party" did not constitute a violation of the Liquor Licence Control Act. The committee rejected these pleas and found the students guilty because their

actions were determined to be in violation of student rights and responsibilities and the Liquor Licence Control Act. The committee was concerned about the consequences of the students' actions and imposed a penalty reflecting this. The penalty was Level 1 probation for four registered semesters or until graduation, whichever comes first, a fine of \$150 and a requirement to review the alcohol policy with the assistant director, residence life, of Student Housing Services.

2. Security Services charged a student with permitting the use of a University telephone to convey an obscene message. The committee accepted the student's plea of guilty with an explanation. The committee took into account that the student was unaware of the phone being used and had not given permission for its use. The penalty was Level 2 probation for this semester and the next two the student is registered in, a \$50 fine and the requirement to write a letter of apology to the individual called. In the letter, the student is to acknowledge accountability for allowing the phone to be used.

3. Security Services charged a student with unlawful removal of fire-protection equipment, unlawful possession of fire-protection equipment and tampering with fire-protection equipment. The committee accepted the student's plea of guilty. The committee was concerned that the student's actions could have jeopardized the safety of the University community and imposed a penalty reflecting this. The penalty was Level 2 probation for this

semester and the next two the student is registered in, a fine of \$300 and the requirement to review fire-safety tapes with the assistant director, residence life, of Student Housing Services.

4. Security Services brought charges against a student alleged to have been engaged in activities likely to cause personal injury when the student bit another student at a University event. The committee accepted the student's guilty plea and deemed this a serious breach of student rights and responsibilities because it constituted an assault. As a penalty, the student was placed on Level 2 probation until graduation, fined \$300, required to post a peace bond in the amount of \$500 and required to write a letter of apology — to be approved by the judicial officer — within 30 days of the hearing or be faced with a charge of breach of probation.

5. Security Services brought charges against two students who were said to be trespassing when they climbed on to the second-floor balcony of a residence. The committee accepted the students' guilty pleas and, in light of the facts of the case, considered the incident a relatively minor student infraction. The students were placed on Level 1 probation for this semester and the next they are registered in and fined \$50.

6. Security Services brought charges against a student who had removed a parking permit from a vehicle. The student pleaded guilty with an explanation, saying he had taken the permit from a car he mistakenly believed to belong to a friend. The committee accepted the guilty plea, but said it still viewed the action as theft. As a penalty, the student was placed on Level 1 probation for this semester and the next the student is registered in and fined \$75. □

STUDENT SPEAK

College Royal celebrant chosen

by Joanna Von Felkerzarm

Ron Guirguis, newly elected College Royal celebrant, is fully prepared for his role as the University's representative during open house weekend March 16 and 17.

A fourth-year economics major who is president of the University's debating team, Guirguis is ready for the unexpected and hopes that his "broader perspective and understanding of the different facets of this university" will enhance this year's College Royal theme, "Evolution of Excellence."

This theme is what particularly drew Guirguis to the Celebrant competition. "College Royal has undergone an evolution," he says. "This year especially, it has been transformed from an agricultural fair to an expression of the entire University. I hope College Royal will continue to carry forward this evolution."

His schedule of appearances is not finalized, and event organizers can still request his presence at weekend activities. His first public appearance as celebrant is March 13 on Magic 106 FM. □

Ski holiday takes bad turn

A Christmas ski trip to Vermont proved to be more than Peter Lind and Daniel Brown had bargained for.

Lind, a second-year environmental sciences major at Guelph, and Brown, a Brock University student, ended their holiday with several weeks in hospital after suffering first- and second-degree frostbite from spending more than 24 hours in freezing tem-



Celebrant Ron Guirguis

peratures while searching for their way back to their resort.

It all began when the two set off on a pre-lunch ski trip to explore a side trail. On their way back, they noticed a narrow path off their side route and decided to make a detour, hoping it would eventually lead to the main trail.

What they didn't know, however, was that these fresh tracks had been created the day before by an adventurous skier who had to be rescued from a dead end after calling for help from his cellular phone.

Lind and Brown had no such luck. Without any means of communication, they were up to their waist in snow and had to side-step up the mountain on their skis.

"By the time we reached the top, we couldn't see anything," says Lind. Exhausted from their climb, they skied in the dark, searching for a path leading to the main trail.

Eventually, the two dug a hole in the snow, where they spent the night. "We were numb, frozen and couldn't sleep," says Lind. "At sunrise, we walked to the top of the mountain to get a clear view, but the snow covered all the tracks. We started to give up."

They tried one last time by going in the opposite direction of the resort. After hours of skiing, they found their way back.

They were both treated for severe frostbite at a Vermont medical centre, than Lind spent several weeks in the Samia Hospital. His plight sparked the interest of local public school students, who filled his room with cards.

Although he missed three weeks of classes, Lind caught up on his studies with help from the Centre for Students with Disabilities.



Student Peter Lind is lucky to be alive after spending 24 hours lost in freezing temperatures.

Photos: Joanna Von Felkerzarm

1996 EYCP deadline nears

The 1996 deadline for applications to the Environmental Youth Corps Program (EYCP) is March 25.

Because of the provincial government employees' strike, only researchers who received EYCP funding in 1995 will receive applications by mail. Photocopies of the application form are available from Barbara Leachman in the Office of Research, Room 224 of the Reynolds Building.

Although proposals are being accepted, the ministries involved in EYCP are cautioning that they have not yet received final approval for money to be spent on this program. □



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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph top stories can be accessed on World Wide Web <http://www.uoguelph.ca/atguelph>. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, fax: 519-824-7962, e-mail swebster@exec.admin.uoguelph.ca. Office hours: 8:30 a.m. to 4:45 p.m.

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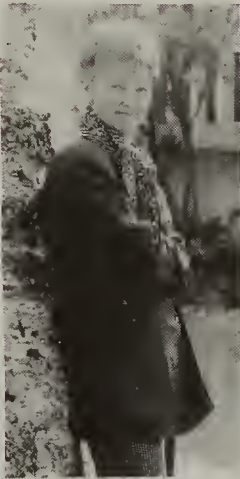
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Cultural studies scholar is Winegard visiting professor in College of Arts

Maureen McNeil of the department of cultural studies at the University of Birmingham, England, will be Winegard visiting professor in the College of Arts and the Centre for Cultural Studies/Centre d'études sur la culture from March 18 to April 5.

An internationally renowned scholar, McNeil is author of *Under the Banner of Science: Erasmus Darwin and His Age* and more than two dozen articles and policy reports on the politics of gender, science and technology; education and technology; fetal alcohol syndrome; and critical theory.

A BA graduate in history and political science from York University and an MA graduate in history from Waterloo, McNeil earned a PhD in the history and philosophy of science at the University of Cambridge and has been teaching cultural studies at Birmingham since 1980. From 1993 to 1995, she held the prestigious Nancy Rowell Jackman chair of women's studies at Mount St. Vincent University. On



Maureen McNeil

her return to England, she will take up a readership in women's studies at the University of Lancaster.

At Guelph, McNeil will partici-

pate in a series of lectures, seminars and round-table discussions on science and technology, feminist theories, animal rights and smoking. Her opening lecture, "Purity and Danger: Cultural Studies of Science and Technology," is March 20 at 4:10 p.m. in Room 103 of the University Centre and will be followed by a reception in the University Club.

She will also discuss "Issues in Feminist Theory" March 21 at 7 p.m. in Room 304 of the MacKinnon Building and participate in debates on anti-violence as well as smoking and the arts.

McNeil will be available for individual consultation in Room 047 of the MacKinnon Building. Ext. 6049, e-mail: culture@uoguelph.ca.

Her visit is sponsored by the Alma Mater Fund and the College of Arts. The anti-violence debates are sponsored by the Centre for the Study of Animal Welfare, the Office of First-Year Studies, the Department of English and the women's studies program. □



Gillian MacPherson



Dave Robinson

Senators to provide staff perspective

The representation of staff interests on Senate can positively influence academic policy at U of G.

So say Gillian MacPherson and Dave Robinson — permanent full-time members of the University's non-teaching staff who are set to become the first staff members to sit on Senate this September.

MacPherson, an administrative officer in the OAC dean's office, and Robinson, a technician in the Department of Biomedical Sciences, believe the frequent contact they and their colleagues have with students renders the voice of staff on policy making vital.

MacPherson, a 1985 BA graduate of Guelph who has worked on campus since the early 1970s in a variety of administrative capacities and as an academic counselor, believes she has a lot to offer.

"This nomination provides another avenue through which to work with faculty and represent staff and academic needs on campus," she says. "Given the current

fiscal climate, open learning is of particular interest to me. In addition to responding to academic and market needs, this form of delivery generates revenue that is likely to become increasingly important."

She'd also like to see more recognition given to — and bigger roles played by — alumni, particularly those who work on campus. "I believe our employees can be our best ambassadors."

A 1982 B.Sc. graduate of Guelph, Robinson has held positions in the Department of Biomedical Sciences since becoming a full-time staff member in 1983. After several years of seeking representation for staff on Senate as president of the U of G Staff Association from 1993 to 1995 and as a member of numerous committees, he's looking forward to his one-year term.

"I am happy to have been nominated for this position and will try to be of immediate assistance to my colleagues and ultimately the University itself." □

Federal study of UI, employment patterns yields unexpected results

by Kerith Waddington
University Communications

Employees are 50 to 60 per cent more likely to leave a job once they've worked long enough to qualify for unemployment insurance, but they're also more likely to be laid off by their employers than to quit voluntarily.

That's what economics professors Louis Christofides and Chris McKenna discovered while participating in the first complete evaluation of Canada's UI program. Sponsored by Human Resources Development Canada (HRDC) in 1994/95, the study was one of 25 conducted at universities nationwide. These studies are now forming the scholarly basis for the government's current examination of how to reform the program.

Researchers focused on such areas as UI income distribution and living standards, UI and the labor market and the effects of UI on employer and worker behavior.

McKenna and Christofides say their study of employment patterns and UI — completed by evaluating data from two labor

market activity surveys — yielded a few surprises.

"It is conceivable that some work attachments last just long enough to qualify for UI benefits, but they are not always terminated by workers wishing to take a period of subsidized leisure, as is commonly believed," says McKenna. "This study reveals for the first time that both sides of the labor market are equally involved in separations, a finding that puts a whole new spin on the issue of UI program design for HRDC."

Christofides and McKenna hypothesize that employers are involved in the separations for reputation purposes; it's probably easier for them to hire from the local labor market if it's known that their firm keeps workers employed until they qualify for UI. It may also enable the employers to hire at lower wages.

Of the 60,000 people surveyed, results indicate that job durations are about 80-per-cent shorter than they would have been had UI benefits not been available. In other words, all else being equal, separation after 10 weeks would

have occurred eight weeks later than it did.

McKenna is careful to point out, however, that the results cannot be studied in isolation.

"The usefulness of the UI program and the direction it takes will be guided by the amalgamated results of all the studies. It is important to also note that wherever UI entrance requirements are set, there will be results like this, so movement of the qualification date is not necessarily the answer."

Personal and job characteristics were also studied for their effect on job duration. McKenna and Christofides found that job duration is generally longer for older workers, for those making higher wages and for those with a reasonably high level of education. Gender made no significant difference in job duration, but the size of a firm, unionization and coverage by a collective bargaining agreement all prolonged employment time.

Christofides adds that it should not be assumed that longer job durations are necessarily better.

"It is reasonable to expect that from a policy point of view, lengthening the time at which UI qualification occurs will prolong employment durations, may discourage marginal labor force involvement and may reduce turnover rate," he says.

"But keeping employees at a job when they don't want to be there is not really a step forward. Productivity goes down, and employers may come under pressure to keep on workers, thus incurring higher costs. So manipulation of UI qualification time will have only so much impact on the effectiveness of the labor force in the country and the usefulness of the program itself." □

FACS marks 25th anniversary

The College of Family and Consumer Studies will celebrate its 25th anniversary March 16 during College Royal open house weekend.

Supported by the U of G Alumni Association, the Harshman Foundation, FACS and the Mac-FACS Alumni Association, the day kicks off with a panel discussion on "Life After FACS — Thoughts on the Contributions of FACS to Career Development" at 2 p.m. in Room 149 of Macdonald Hall. Moderator is UGAA president Liz O'Neil.

From 4 to 6 p.m., there will be tours of College Royal displays in

FACS and other colleges and a silent auction of FACS memorabilia.

A dinner begins at 7 p.m. at the Cutten Club and will be followed by a program honoring recently retired faculty and staff, a talk by FACS dean Michael Nightingale on the future of the college and a live auction of memorabilia. Emcee is 1972 FACS graduate Judy Maddren, co-host of CBC radio's *World Report*. Auctioneer is Prof. Keith Slater.

For more information or to reserve a table, call Barbara Aldridge at Ext. 6321. □

March hits a high note

Music is in the air.

U of G ensembles and student soloists are offering a variety of concerts this month, ranging from classical to jazz.

First up is a recital March 18 with violin student Gisele Boll performing works by Mozart, Bach, Prokofiev and Monti. She will be accompanied on the piano by her mother, Linda Bonadeo-Boll. The recital begins at 12:10 p.m. in Room 107 of the MacKinnon Building. Admission is free.

On March 22, the U of G Orchestra teams up with the U of G Concert Winds, fresh from their win of two gold ribbons at the Guelph Kiwanis Music Festival, for an 8 p.m. concert in War Memorial Hall.

Conducted by Henry Janzen, the orchestra will perform "Hebride Overture," "Reverie" and "Acadian Songs and Dances." Led by John Goddard, the winds will offer "Brass Fanfare," "A Bernstein Tribute," "Mars" from *The Planets*, "March to the Scaffold" from *Symphonic Fantastique*, "An Irish Rhapsody" and "The Trombone King." Tickets are \$7 at the door or from the Department of Music, Ext. 3127.

March 25 is student soloists' day, with 10 students performing vocal and instrumental pieces at 12:05 p.m. in MacKinnon 107. Admission is free.

The U of G Jazz Ensemble and conductor Prof. Howard Spring are tuning up for a concert March



28 at 8 p.m. at the Macdonald Stewart Centre. Special guest is jazz pianist Frank Falco of Toronto, who will also lead a workshop for the ensemble a week prior to the concert. Tickets are \$2 at the door.

A month full of music wraps up March 29 with the U of G Choir's spring concert, "To God of All Nations" (Music of Praise from Many Traditions), conducted by Marta McCarthy. The program will include "Jerusalem" by Hubert Parry, "Miss Luba: Mass in Congolese Style," arranged by Guido Haazen, "The Hour Has Come" by Glick and "To God of All Nations" by Chan Ka Kin, who will be on hand for the performance.

The concert begins at 8 p.m. at War Memorial Hall. Tickets are \$7 at the door or from the Department of Music. □



Lee McDermott likes to put her customers at ease with a friendly smile at the Bovey Building's Greenhouse Café. Photo - Joanna Von Felkerzam, University Communications

Serving up coffee with a smile

by Joanna Von Felkerzam
University Communications

After five years of working in the University Centre for Hospitality services, it wasn't easy for Lee McDermott to leave friends and co-workers behind to head off to a new position as part-time supervi-

sor at the Bovey Building's Greenhouse Café. But she likes the challenge and change.

"I wanted to branch out and try something new," she says. "If you don't think you can succeed, no one else will."

This isn't the first time McDermott has taken on a chal-

lenge. After the youngest of her three children headed off to school, she enrolled in a computer course at Conestoga College. "You're never too old to learn," she says.

McDermott proved this motto true in her last position at the UC's Second Cup. To join that operation, she was required to undergo an intensive coffee college course and pass with 85 per cent to become a certified coffee agent. "It was a tough lesson, but I passed it," she says.

Her innovative and friendly approach to work is noticed by her co-workers and customers alike. In an earlier stint at the UC Deli, she launched a weekly *Trivial Pursuit* competition. The questions had been given to her son's fourth-grade class and, unable to answer them herself, she posed them to the University community. She's still waiting for the answer to: "What is a guyot?"

McDermott's dedication to students goes beyond the call of duty. First-year students who have problems adjusting to the pace of university often confide in her, and she directs some to on-campus counselling services. She hopes the friendly Greenhouse Café atmosphere helps put students at ease. □

'Scots and Aboriginal Culture' focus of talks

The Scottish studies program in the Department of History will hold a spring colloquium on the theme "Scots and Aboriginal Culture" March 22 to 24 in Room 117 of the MacKinnon Building.

Sponsored by the Scottish Foundation, the College of Arts and Multiculturalism Canada, the colloquium will feature talks by Scottish studies experts from Scotland, Australia, Guelph and across Canada.

Speakers include Cliff Cumming and Kerry Cardell of Australia's Deakin University, who will also perform a dramatic dialogue between a Highlander and an Aborigine in 19th-century Australia. Alexander Murdoch of Edinburgh University will dis-

cuss "Race and the Highlander: Emigrants from the Scottish Highlands and Native American and African People in North America."

Other topics include "Images of the Native in the Scottish Periodical Press," "Scottish Influence on Métis Culture in the Northwest" and "Sectarianism in Indian Affairs." There will also be a round-table discussion on "Scots and Aboriginal Culture?"

Cost is \$20 for Saturday or Sunday (\$15 for seniors), \$30 for both days (\$25 for seniors) and \$15 for lunch on Saturday. For more details, call Barb Merritt at Ext. 6528, fax to 766-4384 or send e-mail to Prof. Elizabeth Ewan at ceewan@uoguelph.ca. □

Pesticide penetration of plastic can be reduced

by Margaret Boyd
University Communications

Pesticide penetration into plastic containers can be reduced significantly by increasing the amount of fluorination in the containers, studies at the Centre for Toxicology show.

Recycled agricultural pesticide containers find new life as fences and curb stops and in industrial use throughout Canada. Even though the recycled products have passed extensive health and environmental testing, the Guelph findings mean that risks associated with these products can be further minimized.

When triple-rinsed, these containers (about one million agricultural pesticide containers are used annually in Canada) retain 0.1-per-cent pesticide residue. But it has been observed that certain solvent-based pesticide formulations can penetrate into the plastic matrix of containers.

Container fluorination, a treatment in place to prevent penetration, is currently not as effective as it could be, says graduate student Graham O'Brien, who helped conduct the study. If fluorination of pesticide containers were more stringent, however, it

would provide a much more effective barrier against pesticide penetration, he says.

O'Brien and Prof. Keith Solomon, director of the Centre for Toxicology, conducted a comparison of two types of plastic — fluorinated high-density polyethylene and regular polyethylene — to determine how effective fluorination is in reducing pesticide penetration. For the study, O'Brien took two-centimetre discs of plastic from unused containers, treated them with solvent-based radiolabelled pesticides and stored them at three different temperatures — -18 C, 22 C and 50 C. The study found that the fluorinated containers and those stored at lower temperatures recorded lower pesticide penetration levels.

"Certain formulations of pesticides penetrate the plastic matrix," says O'Brien. "Fluorination does reduce actual pesticide penetration, but we found it was only preventing it by 20 to 40 per cent compared with unfluorinated containers."

The study found that fluorinated variability within containers is high and that those containers with little or no pesticide penetration had undergone more stringent fluorination, says O'Brien.

Fluorine is added during the blow-moulding stage of plastic-container production and exchanges with the hydrogen atoms in the high-density polyethylene, forming a Teflon-like coat.

O'Brien and Solomon are also working on a solvent extraction method for recycled products to measure existing pesticides and their associated risks. Some of the more common pesticides include trifluralin, 2,4-D and azinphos-methyl.

The new measurement technique, which will simulate the recycling process, could provide quality control of human and environmental risk. The new technique uses solvent to extract pesticides from simulated recycled products to determine a recovery percentage.

This research is supported by the Ontario Pesticides Advisory Committee and the Ministry of Environment and Energy. □

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Science and Society gives undergrad teaching a boost

Continued from page 1

Waterloo. A project leader will be named this spring.

Norman Ball, director of the Waterloo centre, says this project "is the most exciting thing that has happened to the centre in its more than 10-year history. But it's more than an exciting moment and prospect for the centre. It's a momentous occasion in the history of undergraduate teaching at Waterloo and Guelph.

"With all of the high-profile emphasis on graduate research, industrial liaison and the courting of funding agencies, undergraduate teaching often gets short shrift. But I think undergraduate work is

what makes a university; it's where the quality begins and, for many, where university ends."

Ball says Murray's proposal is especially appropriate "at a time when we are facing cutbacks and worrying about their impact on the quality of teaching."

Universities are increasingly being asked to show how they are working as part of a larger system rather than as lone wolves, and whether they are serving the taxpayers as well as they should, he says. "The Science and Society project should leave no doubt that Waterloo and Guelph know how to help each other and, in doing so, to give better value for funds received." □



World At Guelph



Members of the European studies program check out the international news programs now available via satellite in the College of Arts Media Centre. From left are program director Prof. Renate Benson, student Harold Welsand, sessional lecturer Friedrich Kuebart and student Lise Rivet.
Photo - Kerith Waddington, University Communications

Satellite opens window on world

News and information from Europe and other countries are now coming to U of G 24 hours a day via satellite and can be accessed in the College of Arts Media Centre.

The international Deutsche Welle tv has contributed a satellite dish to U of G's European studies program (ESP). Connected to a TV monitor in the Media Centre, the satellite also receives a number of programs of interest to other departments.

This is good news for the 50 students in the European studies program and the many more interested in international programs and foreign languages, says ESP director Prof. Renate Benson, Languages and Literatures.

"Some of the programs are a must for those taking business German, but students and instructors should be made aware of the availability of a wide range of news stations," says Benson. "There are broadcasts in many other languages, including French, Spanish, Italian, Portuguese, Arabic and Japanese. News and educational programs from

around the world are also available. This satellite dish is helping bring the global village on to our campus."

The daily journal *Nachrichtenmagazin/News Magazine/El Informativa* covers the latest news; *Drehscheibe Europa/European Journal/Europa Semanal* and *Focus Europa/Focus on Europe* offer regular comments on the development of the European Union; *Schauplatz Deutschland/Germany Live/Alemania en vivo* provide a multilingual kaleidoscope on life, culture and science in Germany; and *100 Grad/HEAT* brings entertainment and music for younger people in German and English.

The satellite project is also funded by the Alma Mater Fund and other alumni donations.

The Media Centre, located in Room 019 of the MacKinnon Building, is open Monday to Thursday from 9 a.m. to 8 p.m., Friday from 9 a.m. to 4 p.m. and Saturday from 1 to 4 p.m. For more information on program schedules, call Kathy Hanneson or Deanna Underwood at Ext. 2144. □

Nightingale's views on reform relevant today

by Helen Fallding
Office of Research

Florence Nightingale is widely known as the heroic front-line nurse who saved thousands of British soldiers' lives during the Crimean War. But few are aware that she was also a brilliant social scientist who lobbied for social change. Two U of G researchers and three international collaborators hope to change that by collecting and publishing her writings.

Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology, and Prof. O.P. Dwivedi, Political Studies, are collaborating with researchers from universities in New York, Indiana and Dundee, Scotland, to pull together Nightingale's collected works.

Tip of the iceberg

Project director McDonald says that although about five volumes of Nightingale's correspondence have already been published, much more remains.

"That's just the tip of the iceberg," says McDonald. "She wrote letters virtually every day of her life — to royalty, viceroys, prime ministers, many to the minister of war, and to experts and intellectual leaders like John Stuart Mill."

In fact, there's such a wealth of material that McDonald estimates this research could yield at least 10 volumes.

Nightingale, who lived between 1820 and 1910, developed her basic philosophy before she went to the Crimea. She was a Christian who didn't believe in miracles; she thought that relief of social problems should be sought not through prayer, but political action. She devoted her life to reform work in areas such as health

promotion, hospital design and midwifery. She lobbied for reform of the "Poor Law" system, which forced the poor into workhouses, and against the Contagious Diseases Act, which scapegoated prostitutes in an effort to control sexually transmitted disease. Nightingale also enunciated the principles of medicare as early as the 1860s.

Social safety net

"The issues she worked on are still issues for us," says McDonald. "She was working in the 19th century, when there was an extremely inadequate version of what we call the social safety net. In the intervening years, we have achieved many of the things that she worked for, but they are again at risk."

McDonald is well-suited to the task of analysing a historical figure whose work combined both theory and activism. She herself left the academic world for a number of years to serve as president of the National Action Committee on the Status of Women and then a member of Parliament.

Dwivedi, for his part, will focus on Nightingale's writings about India, which cover everything from irrigation and famine relief to finance and tax policy.

"I have never seen evidence that Nightingale addressed the issue of whether the British should have been in India as a colonial power," says McDonald. "But given that they were there, she believed they were responsible for the welfare of citizens of the country, and she held them to account."

Radical ideas

McDonald suggests that stereotyping of women and the radical nature of Nightingale's ideas explain why her intellectual contributions have been forgotten, whereas her image as the selfless "lady with the lamp" lives on.

"A romantic nurse is just fine, but someone who wants to institute and develop the medicare system is much more threatening," says McDonald. "Nightingale's policies would always cost money, which she would say was money well spent. She saw a bigger role for the state than was accepted at that time or is accepted by the neo-conservatives of today."

McDonald predicts the project will take many years to complete. The research will require visits to London, England, where many Nightingale manuscripts are archived. McDonald has applied to the Social Sciences and Humanities Research Council for funding. She says there are opportunities for graduate students from several universities in a number of fields to become involved in the project.

McDonald and collaborator Victor Skretkovic will report on their research at an Amsterdam meeting of the International Sociological Association in May. □

International team explores amino acids in pig growth

by Anne Douglas
Office of Research

Lean growth in pigs is getting global attention. It's the focus of an international group of amino acid producers and researchers who met at Guelph recently.

Prof. Kees de Lange, Animal and Poultry Science, initiated and co-ordinated the meeting between the scientists and the world's top amino acid manufacturers from Germany, France and the United States. The team of researchers includes Malcolm Fuller of the Rowett Institute in Scotland, Sonke Mohn of Germany, Paul Moughan of Massey University in New Zealand and Prof. Ron Ball, Animal and Poultry Science.

The purpose of the meeting was to discuss early results of a three-year research project on pigs' ability to use dietary amino acids for lean growth.

Amino acids are the building blocks of proteins. They join in chains at the molecular level to form the protein that makes up muscle. So taking amino acids into account is vital to making good feed and, in turn, good meat.

"It's the first time these three companies have worked together as a team," says de Lange. "Attempting to understand the rela-

tionship between dietary amino acid supply and lean growth is such a major undertaking that international co-operation on this issue is exactly what is needed."

Determining dietary amino acid requirements for groups of pigs that differ by sex, age, environment, health and genetic makeup is arduous because those characteristics can change the requirements. It would be impossible to test each group of pigs for how much of each of the 10 amino acids they need, so the researchers want to be able to predict amino acid requirements.

First, they have to understand the relationship between dietary amino acid intake and lean growth. They hope that by conducting a variety of tests to determine how much of the amino acid consumed is absorbed by pigs and how much is eliminated, they can begin to understand the factors that affect the pigs' efficiency at converting amino acids into lean growth.

Lysine is one of the most important amino acids in pigs' diets, so the first studies have all focused on the animals' use of it. The researchers have evaluated various techniques to measure the efficiency of using available amino acids to produce body protein.

"What has been lacking are accurate experi-

mental techniques and close control of the factors that may affect the efficiency of amino acid utilization in growing pigs," says de Lange.

The researchers have used three different methods to study how pigs use amino acids. Preliminary studies have shown when and what type of measurements are best at monitoring the efficiency with which pigs use amino acids.

"The results of this work will allow us to more accurately meet amino acid requirements of different groups of pigs," says de Lange. "If we understand amino acid absorption better, then by feeding better diets, we can reduce the excretion of nitrogen with swine manure into the environment and use our amino acids more efficiently. It will bring both competitiveness and sustainability to the pork industry."

This research is sponsored by Degussa in Germany, Eurolysine/Heartland Lysine in France and the United States, and Archer Daniels Midland in the States. Other sponsors are the Natural Sciences and Engineering Research Council, the Ontario Ministry of Agriculture, Food and Rural Affairs, U of G's Department of Animal and Poultry Science and the German Research Foundation. □

Community

NOTICES

Senate cancelled

The March 19 meeting of Senate has been cancelled. The next scheduled meeting is April 16.

Candy sale planned

The 1996 United Way campaign will benefit from a sale of Laura Secord candy March 28 in the University Centre courtyard. Ten per cent of the proceeds will go to the campaign. All candy will be offered at a discount of 10 per cent.

Volunteer appreciation

The Wild Bird Clinic Club is holding a volunteer appreciation night for all its members March 13 at 7 p.m. at the University Club on Level 5 of the University Centre.

Retirement reception

John Campbell, manager of Environmental Health and Safety, will be honored at a retirement party April 4 from 4 to 6:30 p.m. in the University Club on Level 5 of the University Centre. Cost is \$10. RSVP by March 27 to Theresa Hood in Human Resources, Ext. 8774. Anyone unable to attend but wishing to donate to a gift or send greetings to Campbell, forward them to Hood by March 27.

Teaching on the Web

The University of Waterloo is hosting a seminar on "Experiences Using the Web for a Course" March 28 at 1:30 p.m. in B1-271. Three science professors will demonstrate and discuss their use of the Web for teaching. For more information, call Waterloo's Teaching Resources and Continuing Education at 519-888-4567, Ext. 3132.

Quality of life

McMaster University's department of clinical epidemiology and biostatistics is sponsoring a workshop on health-related quality of

life March 25 and 26 in Niagara-on-the-Lake. For more information, call Martha Leibbrandt in OVC at Ext. 4414. To register, call Marlene Taylor at McMaster, 905-525-9140, Ext. 22163.

Community forum

An open community forum on developing resources for teens in downtown Guelph is slated for March 23 from 1 to 4:30 p.m. at 133 Wyndham St. For more information, call Hilary Sullivan at 824-7230 or Madeline Bakker at 823-8611.

Seniors launch new club

A new club for seniors begins in Guelph this month, focusing on books, photography and writing. The club will meet the last Thursday of each month from 1:30 to 3:30 p.m. at the Evergreen Seniors Centre. Members must belong to the Guelph/Wellington Seniors Association. For information, call James Gordon at 821-7065 or Betty Richard at 823-1291.

JOBS

As of March 8, the following positions were available to on-campus employees only:

Control Clerk, Financial Services, temporary leave from March 15 to Nov. 15/96. Salary: \$14.44 to \$16.13 an hour. Removal date: March 13.

Secretary, Veterinary Teaching Hospital, temporary leave from May 15 to Jan. 2/97. Salary: \$11.90 to \$13.28. Removal date: March 15.

Client Service Clerk, Veterinary Teaching Hospital, temporary full-time leave from April 15 to Oct. 16/96. Salary: \$13.17 to \$14.71. Removal date: March 15. □

Anti-racist drama

The Department of Drama presents Sri Lankan teens from L'Amoureux Collegiate in Scarborough exploring issues of racism, the Canadian immigrant experience and more at a presentation of *The Lamp and the Mirror* March 15 at 1 p.m. at the Inner Stage. Admission is free, but donations are welcome.

Easter breakfast

The men of Speedside United Church will hold an Easter farmers' breakfast March 30 from 9 to 11 a.m. Cost is \$5 general, \$2.50 for children 12 and under. Pay at the door.

Focus on Fergus

The Wellington County Historical Society presents an illustrated talk on the history of the Fergus area

by nature photographer/musician Wayne Bridge March 24 at 2:30 p.m. at the Wellington County Museum and Archives. Admission is free.

Garden tour

The volunteer committee of the Macdonald Stewart Art Centre will host its fourth annual self-guided tour of six Guelph and area gardens June 23 from noon to 5 p.m. Tickets are \$7 general, \$3 for children and are available at the art centre, the Framing and Art Centre, Royal City Nursery and Coach House Florist and Gifts. Proceeds will go for new acquisitions.

Juried art show

The Department of Fine Art's 28th annual juried art show runs March 15 to 17 in Zavitz Hall. A reception and awards presentation

will take place March 15 from 7 to 9 p.m.

Guelph Spring Festival

The Guelph Spring Festival, a celebration of the performing arts featuring chamber musicians, a jazz and world music celebration, and a family series, runs May 31 to June 16. Tickets range from \$8 to \$25. A family fun day in St. George's Square is slated for June 1. For information, call 821-3210.

On being a parent

Author Barbara Colorosa will speak on parenting with wit and wisdom April 2 at 7 p.m. in Peter Clark Hall. Cost is \$10, with proceeds going to Canadian Crossroads International. Call 763-9526 or 822-9610 for information.

CLASSIFIEDS

FOR RENT

Two-bedroom furnished bungalow, Dufferin Street, two baths, laundry, large fenced yard, close to bus stop, available May 1 to Aug. 31, \$800 a month inclusive, Jack, Ext. 3650 or 824-9526.

Four-bedroom summer sublet, two living rooms, rec room, two baths, eat-in kitchen, parking, laundry, close to bus route, Marcus, 836-9566 or e-mail mlepkows@uoguelph.ca.

Fully furnished three- or four-bedroom home, hardwood floors, fireplaces, two sunrooms, deck, porch, large partly fenced yard, laundry, parking, near Elora Gorge and swimming quarry, available April to July 1996, \$700 a month inclusive, 787-0609.

FOR RENT

Furnished room in family home, shared bathroom, laundry, parking, on bus route, \$400 a month with meals, \$300 a month for room only, non-smoker, no pets, available now, Rick, Ext. 3108 or 824-5173.

FOR SALE

Child's Peg Perego electric ride-on vehicle, brand new, best offer, 822-3729.

Bungalow with six bedrooms, two kitchens, two baths, living room with fireplace, fenced yard, carport, 10-minute walk to campus, ideal investment opportunity for student entrepreneur, Kim, 836-0737.

FOR SALE

Limoges dinner service, Theodore Haviland, prior 1926, 12-place settings, 93 pieces, cream with gold trim, perfect condition, appraisal available, 821-2087.

WANTED

Housemate to share luxury home with one other person, country setting, 20-minute drive to campus, available from April 1, \$300 a month inclusive, Ext. 3990.

Painters for summer employment, Peterborough area, experience not necessary, great income possibilities, Dave, 821-3770.

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CALENDAR

THURSDAY, March 14

Pathology Seminar - Graduate student Marianne van den Heuvel considers "Suppression of Bovine Leukemia Virus Expression" at 11:10 a.m. in Pathology 2152.

Concert - Soprano Sally Sanford joins Catherine Liddell on lute/theorbo at 12:10 p.m. in MacKinnon 107. Admission is free.

Canadian Studies Lecture - Robert Kline of TVOntario talks about "Imprint — Television and Literature: Can They Coexist?" at noon in MacKinnon 226. Cost is \$15. Register at Ext. 3064.

Plant Biology Seminar - "A Spiroplasma's View of Rapid Transit: Why All the Passengers Don't Get Off the Bus" is the topic of Jacqueline Fletcher of Oklahoma State University discusses at 3 p.m. in Axelrod 117.

Artist's Talk - Prof. Margaret Priest, Fine Art, discusses her new show, "To View from Here," at 4:15 p.m. at the Macdonald Stewart Art Centre.

Workshop - The Counselling Unit hosts a session on "Body Image" at 5 p.m. in UC 334.

Film - *Truth or Dare* begins at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, March 15

History Seminar - "Daylight upon Magic": Deconstructing the Royal Tour of 1901" is the topic of Philip Buckner of the University of New Brunswick at noon in MacKinnon 132.

Evolution and Systematics Seminar - Prof. Teri Crease, Zoology, discusses "Concerted Evolution in the Ribosomal Genes of *Daphnia pulex*" at 3:10 p.m. in Axelrod 259.

MONDAY, March 18

Fine Art Seminar - Mixed-media artist Francis Laboutheillier discusses his work at noon in Zavitz 320.

Student Recital - Violinist Gisele Boll and pianist Linda Bonadeo-Boll perform at 12:10 p.m. in MacKinnon 107.

TUESDAY, March 19

Animal and Poultry Science Seminars - M.Sc. student Carla Wood considers "Expression of Gonadotrophin-Like Hormone Genes in Bovine Conceptuses," and M.Sc. student Derrick Romain examines "Black Bear Food Habits and Nutrition in Northern Ontario" at 11:10 a.m. in Animal Science/Nutrition 141.

Fine Art Seminar - "Imagining the Unconscious: Science and Spirituality in French Symbolist Art" is the topic of Serena Keshavjee of the University of Toronto at noon in Zavitz 320.

Canadian Studies Lecture - Film critic Geoff Pevere discusses "Media as Contemporary Mythology" at 1:30 p.m. in MacKinnon 226. Cost is \$15. Register at Ext. 3064.

WEDNESDAY, March 20

Biochemistry Seminar - Brian Cox, Chemistry and Biochemistry, considers "From Binding to Transcription to Metabolism and Beyond: In Vitro Assays for Environmental Estrogens" at 1 p.m. in MacNaughton 222.

Physics Colloquium - "Black Holes in the Centres of Galaxies" is the subject of Scott Tremaine of the University of Toronto at 4 p.m. in MacNaughton 113.

Cultural Studies Lecture - Winegard visiting professor Maureen McNeil of the University of Birmingham discusses "Purity and Danger: Cultural Studies of Science and Technology" at 4:10 p.m. in UC 103. A reception will follow at the University Club.

Botany Seminar - Margot Kronick discusses "Mycorrhizas in Temperate and Boreal Forests: Ecology and Applications" at 7:30 p.m. at the Arboretum Centre.

THURSDAY, March 21

Pathology Seminar - Graduate student Gloria Arcuri considers "The Pathogenesis of Pneumonia Virus of Mice in the Wistar Rat" at 11:10 a.m. in Pathology 2152.

Canadian Studies Lecture - Consultant and community activist Tom Kleinbeernink discusses "The Corporatization of Culture"

at noon in MacKinnon 226. Cost is \$15. Register at Ext. 3064.

Concert - The Royal City Saxophone Quartet performs at 12:10 p.m. in MacKinnon 107.

Workshop - The Counselling Unit hosts a session on "Wellness and You" at 5 p.m. in UC 334.

Cultural Studies Seminar - Winegard visiting professor Maureen McNeil of the University of Birmingham explores "Issues in Feminist Theory" at 7 p.m. in MacKinnon 304.

Art Lecture - Michelle Jacques of the Art Gallery of Ontario discusses "Group of Seven: Art for a Nation" at 7:30 p.m. at the Macdonald Stewart Art Centre.

FRIDAY, March 22

Concert - The U of G Orchestra and Concert Winds conducted by Henry Janzen and John Goddard perform at 8 p.m. in War Memorial Hall. Admission is \$7.

SATURDAY, March 23

Scottish Studies Colloquium - "Scots and the Aboriginal Peoples" is the theme of talks from 9:15 a.m. to 4:30 p.m. in MacKinnon 117. A reception follows at the University Club. The colloquium continues Sunday from 9 a.m. to 4:45 p.m.

MONDAY, March 25

Recital - Student soloists perform at 12:05 p.m. in MacKinnon 107.

TUESDAY, March 26

Animal and Poultry Science Seminar - M.Sc. student Derek Haley discusses "Sucking Behavior of Calves: Effects of Milk Flow" at 11:10 a.m. in Animal Science/Nutrition 141.

Food Science Seminar - "Milk Proteins and Particles Made from Them: Challenges and Opportunities" is the focus of Prof. Douglas Dalgleish at noon in Axelrod 117.

Physics Colloquium - M.V.N. Murthy of India's Institute of Mathematical Sciences and McMaster University considers "Fractional Statistics from a Generalized Pauli Principle" at 4 p.m. in MacNaughton 113.

WEDNESDAY, March 27

Plant Biology Seminar - Karl Oparka of the Scottish Crop Research Institute in Scotland discusses "Unravelling Plant Communication Channels: Viruses Carry the Torch" is the topic of at 4 p.m. in Axelrod 117.

Cultural Studies Lecture - "Speaking on Behalf of Animals: Anti-Vivisection and Victorian Women" is the topic of Susan Hamilton of the University of Alberta at 7:30 p.m. in OVC 1714.

WORSHIP

Womanspirit, a spirituality circle for women, meets Fridays at 12:10 p.m. in UC 533.

Roman Catholic Eucharist is held Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church of non-denominational Christian worship is held Sundays at 7 p.m. at Harcourt United Church. ☐



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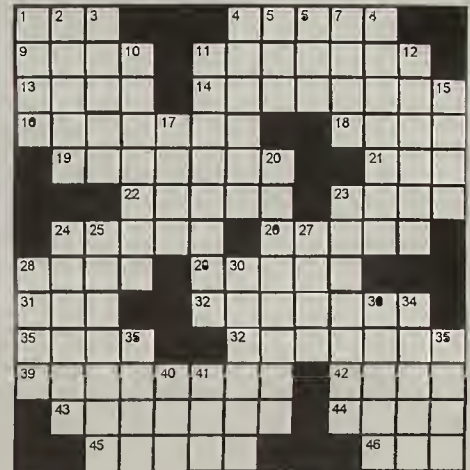
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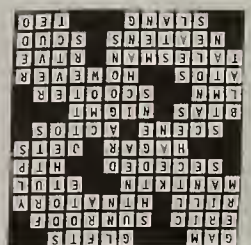


ACROSS

1. Herd of whales
4. Presents
9. Actor Stoltz
11. Automobile feature
13. Small stream
14. Menacing
16. Anatomical model of the human body
18. Small case
19. Pulled out
21. Cheer word
22. Ishmael's mother
23. Nozzles
24. Landscape
26. Amino and boron
28. Partiality
29. Darkness
31. K-O connection
32. Child's vehicle
35. Helpers
37. Nevertheless
39. Jury member
42. Split asunder
43. Sets in order
44. Run before a gale
45. Language of the street
46. Diminutive of Edward

DOWN

1. Microbe
2. Oratorio melodies
3. "Winnie-the-Pooh" author
4. English gold coin
5. Public house
6. Brother
7. Carry
8. Afforded relief
10. Hackneyed expressions
11. Tiny bits
12. Concerns of a pomologist
15. Barks sharply
17. Shakespearean actor
20. Cavalrymen
23. Fidgets
24. Monkey
25. Rushlights
27. Chinese dog
28. Cry like a calf



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GRAD NEWS

Magazine's messages on infant feeding vary over five decades

The final examination of Patrick O'Brien, an M.Sc. candidate in the Department of Human Biology and Nutritional Sciences, is March 15 at 9:30 a.m. in Room 212 of the Powell Building. The thesis is "The Fatigue Response of the Trunk Musculature to an Isometric Trunk Twist Exertion." The adviser is Prof. Jim Potvin.

The final examination of M.Sc. candidate Karen Beck, Consumer Studies, is March 15 at 10 a.m. in Room 233 of the FACS Building. Her thesis is "The Use of Intrinsic and Extrinsic Cues in Information Processing and Con-

sumer Choices." The adviser is Prof. Majorie Wall.

The final examination of Zhichao Shi, a PhD candidate in the Department of Chemistry and Biochemistry, is March 22 at 9:10 a.m. in Room 132 of the MacKinnon Building. The thesis is "Adsorption of Anions and Their Co-adsorption with Copper Adatoms at the Au(111) Electrode Surface." The adviser is Prof. Jacek Lipkowski.

Interested members of the University community are invited to attend. □

by Margaret Boyd
University Communications

Messages about infant feeding in a major Canadian women's magazine over the past 50 years have swung from bottle feeding to breast-feeding, reflecting scientific advances and societal values, a U of G study has found.

In the 1940s, ads and articles about infant feeding promoted bottle feeding exclusively. In the

1960s, freedom of choice was introduced, and bottle and breast-feeding were promoted equally. In the 1980s, the pendulum swung in favor of breast-feeding, which is still the preferred infant-feeding method of most new mothers and the health profession.

For the study, fourth-year applied human nutrition student Beth Potter looked at issues of *Chatelaine* magazine from 1945 to 1949, 1965 to 1969 and 1985 to 1989 to determine the volume and types of messages being generated about infant feeding.

Chatelaine was chosen for the study because it is a national magazine aimed at women from 20 to 60 and is read by one-quarter of all Canadian women. In addition to comparing the number of messages and themes presented, Potter compared messages about trends in breast-feeding and how these messages relate to the World Health Organization code.

All the advertisements found in the 15-year sample period violated the World Health Organization code, which prohibits infant-feeding advertising unless accompanied by a statement that the product being advertised is not intended for infants under four months of age.

Potter found 292 items related to infant feeding, 183 of which were advertisements for bottles, for-

mulas and foods. There were also 99 indirect messages, which included such items as ads for unrelated items that contained, for instance, depictions of babies and bottles or other items associated with infant feeding. For the entire 15-year period, there were only 10 editorial articles about infant feeding, none of which appeared in the magazine between 1985 and 1989.

In terms of trends, different messages were discovered in each of the decades. Messages related to bottle feeding were common in the postwar period of the late 1940s, whereas by the late '60s, messages about bonding were common. By the late '80s, messages about health and what infant food "does not contain" were most common, Potter says.

The frequency of the messages varied. There were 161 messages from 1945 to 1949, 88 from 1965 to 1969 and 43 from 1985 to 1989. This decline could reflect the influence of the WHO code, which came into effect in 1981, or a changed target audience, Potter says. In addition, formula companies may have shifted their advertising focus from general women's magazines to health professionals and magazines aimed specifically at new parents.

The Canadian trends, as depicted by the magazine, closely follow those in the United States that show breast-feeding declined in the postwar period until the early '70s, when it increased.

In Canada in 1990, 80 per cent of new mothers breast-fed their babies in hospital, and the average period of breast-feeding was just over three months. Statistics show that women are more likely to breast-feed if they are older, married and well-educated, have higher incomes and are nonsmokers.

Potter's research was supervised by Prof. Judy Sheeshka, Family Studies, and McMaster University nursing professor Ruta Valaitis. □

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